Oriental motor

HL-17149

EZ limo
easy linear motion

Data editing software EZED3

OPERATING MANUAL

Thank you for purchasing an Oriental Motor product.
This Operating Manual describes product handling procedures and safety precautions.

- Please read it thoroughly to ensure safe operation.
- Always keep the manual where it is readily available.

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1 Safety precautions

The following describe the safety precautions so that this product is used in a safe manner.
The **EZED3** is designed with the assumption that the user has an understanding of basic operations such as starting up and exiting applications and how to use a mouse in Windows XP, Windows Vista and Windows 7. Use the product only after carefully reading and fully understanding these instructions.
Also read the "Safety precautions" section in the operating manual that came with the product you are combining with the **EZED3**.

⚠ **Warning**	Handling the product without observing the instructions that accompany a "Warning" symbol may result in serious injury or death.
⚠ **Caution**	Handling the product without observing the instructions that accompany a "Caution" symbol may result in injury or property damage.
Note	The items under this heading contain important handling instructions that the user should observe to ensure safe use of the product.

⚠ Warning

Connection

- Turn off the power to both the PC and applicable product when connecting. Failure to follow this instruction may cause electric shock.

⚠ Caution

Connection

- When grounding the positive terminal of the power supply, do not connect any equipment (PC, etc.) whose negative terminal is grounded. Doing so may cause the equipment and applicable product to short, damaging both. Use a programming console **MPC10** for editing data.

Disposal

- Dispose the **EZED3** as industrial waste.

2 Introduction

Perform any installation, uninstallation, editing, and other operations for the data editing software **EZED3** using an account with Administrator privileges.

■ Notation rules

This manual has been described in accordance with the following notation.
The screens shown in this manual are those displayed in Windows XP.

[ ]	Menus and submenus shown in/from the title bar, buttons, and other controls that can be clicked with the mouse, are enclosed in square brackets.
“ ”	Dialog box messages, etc., are enclosed in double quotations marks.
Enter	Keyboard keys are shown in a box.

Note

- The screens provided in this operating manual are those displayed in an **ELS** Series position driver type.
- The setting items and screen transitions vary depending on the product used in combination with the **EZED3**.
- The software version is described as □ in this manual.

■ Functions of EZED3

The **EZED3** is PC software for editing the data necessary for the operation of motorized actuators.
Data can be edited in various PC screens, or data set in an applicable product can be checked from a PC.
The key functions of the **EZED3** are explained below.

- Editing and saving the data

Operation data and parameters can be created and edited.
Data edited in the **EZED3** can be written to an applicable product (download), or data stored in an applicable product can be read into the **EZED3** (upload).
You can save data files created in the **EZED3** in either the **EZED3**’s dedicated file format (.ez3) or CSV format.

- Monitor function

ON/OFF statuses of I/O signals can be monitored.

- Test function

I/O test can be performed to monitor input signals and cause output signals to be output forcibly.
You can also perform test operations using the **EZED3**.

■ Applicable product

Refer to “12 List of drivers supported by the **EZED3**” on p.92 for the products that can be used in combination with the **EZED3**.
These products are referred to as an “applicable product” in this document.

■ Hazardous substances

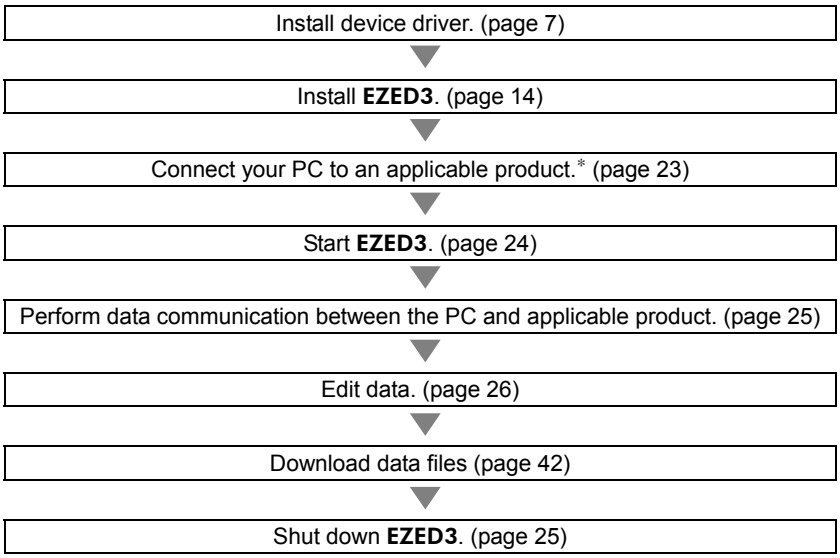
RoHS (Directive 2002/95/EC 27Jan.2003) compliant

■ General specifications of cable

Interface	USB Specification 1.1 (Full Speed 12 Mbps)
Connector shapes	RS-485 (Mini DIN 8 Pin: male), USB (Type Mini B: female) USB Type A connection via included USB cable to connect to a PC
Communication system	Half duplex
Communication speed	9600 bps
Indicator	The LED is lit (green) when recognized by PC and ready to use.
Power supply	5.0 VDC (bus power)
Current consumption	25 mA (100 mA max.)
Dimension	25×58.6×16 mm (0.98×2.31×0.63 in.) [excluding cable section]
Mass	PC interface cable: App. 0.2 kg (7.1 oz) USB cable: App. 0.03 kg (1.06 oz)
Operating environment	Ambient temperature: 0 to +40 °C (+32 to +104 °F) (non-freezing) Ambient humidity: 85% or less (non-condensing) Atmosphere: No corrosive gas, dust, water or oil
Insulation system	Non-isolated

■ When using the EZED3

Steps to set operation data and parameters using the **EZED3** are shown below.


Install device driver. (page 7)
Install **EZED3**. (page 14)
Connect your PC to an applicable product.* (page 23)
Start **EZED3**. (page 24)
Perform data communication between the PC and applicable product. (page 25)
Edit data. (page 26)
Download data files (page 42)
Shut down **EZED3**. (page 25)

* You can also connect the PC and applicable product after editing data. In this case, after saving the edited data to the PC, turn off both the PC power and applicable product power, connect the PC and applicable product, and then start them again.

Note It is recommended to back up the application program to a suitable storage device or a medium since data loss is a possibility when using software.

3 Installation and uninstallation

3.1 Required system configuration

The installation of the **EZED3** on a PC requires one of the following operating systems (OS) and a PC compatible with the OS you'll be using.

■ Operating system (OS)

You need an English version of any of the basic operating systems listed below.

- Microsoft Windows XP Home Edition Service Pack 3*
- Microsoft Windows XP Professional Service Pack 3*
- Microsoft Windows Vista Home Basic Service Pack 2*
- Microsoft Windows Vista Home Premium Service Pack 2*
- Microsoft Windows 7 Home Premium Service Pack 1
- Microsoft Windows 7 Professional Service Pack 1

∗ Only with the 32-bit (x86) version.

■ Personal computer

CPU *1	Intel Core processor 2 GHz or more is recommended.
Display resolution	Video adapter or monitor of XGA (1024×768) or higher resolution
Memory *1	1 GB or more is recommended.
Hard disk capacity *2	Available disk space of 30 MB or more
USB port	USB1.1 1 port or more
Disk drive	CD-ROM drive (for installation)

∗1 The hardware requirements for the OS must be satisfied.

∗2 Microsoft .NET Framework 2.0 Service Pack 2 must be installed in your PC so that the **EZED3** may function. Microsoft .NET Framework 2.0 Service Pack 2 will be installed automatically, if not already installed. Accordingly, a free hard disk space of up to 500 MB is required in addition to the hard disk capacity specified above.

Note The required memory and hard disk capacities may be different, depending on the system environment.

3.2 Before installing the EZED3

■ Terms for use of this software

Read the terms specified below. Install the **EZED3** only if you agree with all of these terms.

1. All copyrights to or in the **EZED3** belong to Oriental Motor Co., Ltd.
2. Unauthorized use or reproduction of the **EZED3** and its operating manual, whether in part or in whole, is prohibited.
3. Oriental Motor is not liable for any incidental or indirect loss (data damage, business disruption, loss of business profit, etc.) arising from the use of or inability to use the **EZED3**.

Note Administrator privilege is required for installation.

■ If the EZED3 is already installed

If the **EZED3** is already installed, be sure to uninstall it by referring on p.21, and then install the **EZED3** again.

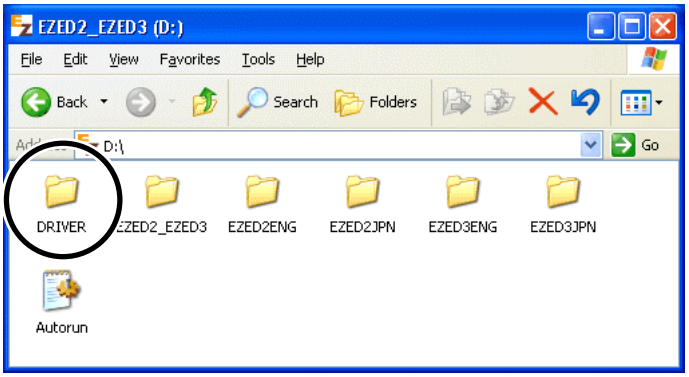
Note If an overwrite installation is performed, the **EZED3** may not operate properly.

3.3 Installing the device driver

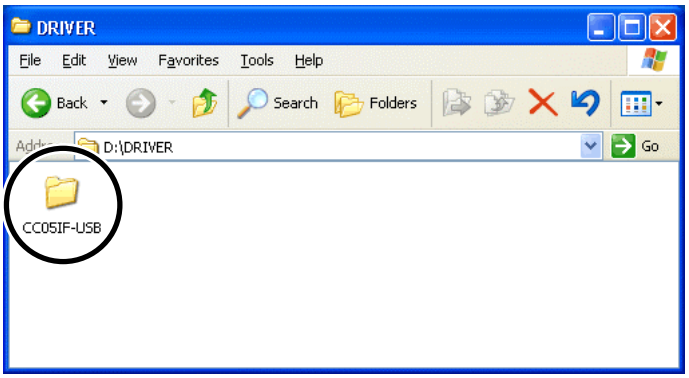
Note

- Administrator privilege is required for installation.
- Do not connect the included USB cable to the PC when installing device drivers.
- Always install the device driver prior to installing the **EZED3**.

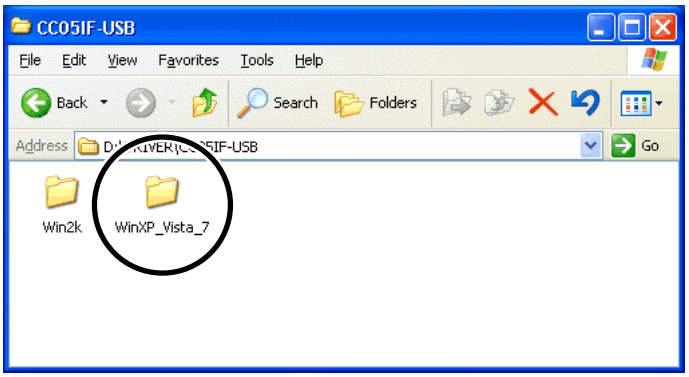
1. Insert the **EZED3** CD-ROM into your CD-ROM drive.
2. Open the “DRIVER” folder on the CD-ROM.



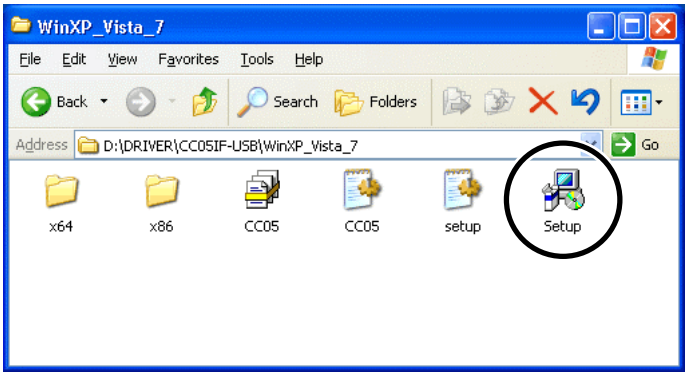
3. Open the “CC05IF-USB” folder.



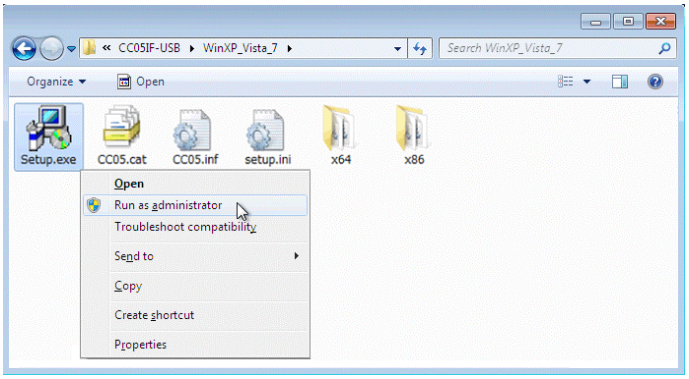
4. Open the "WinXP_vista_7" folder.



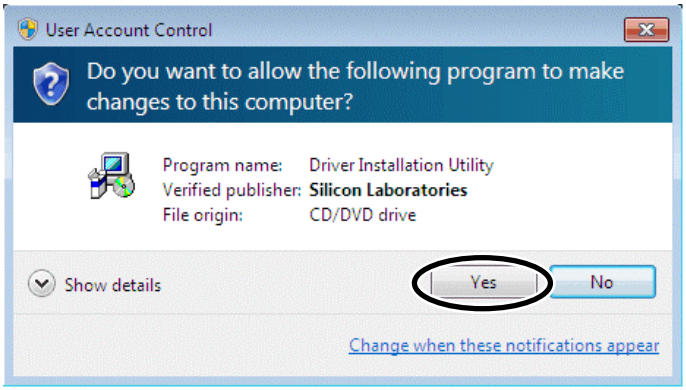
5. Start Setup.exe.
Installer is launched.



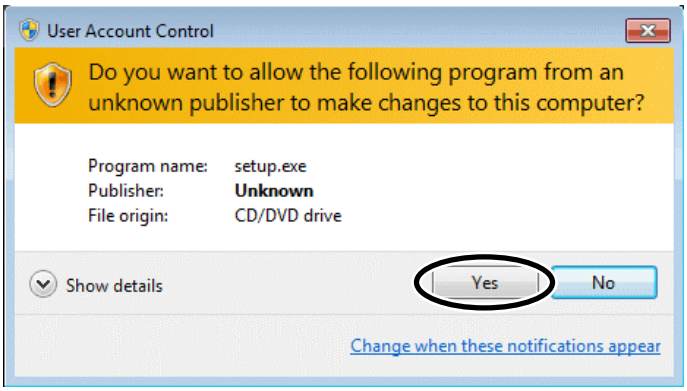
In Windows Vista or Windows 7, right-click Setup.exe and then click [Run as administrator].



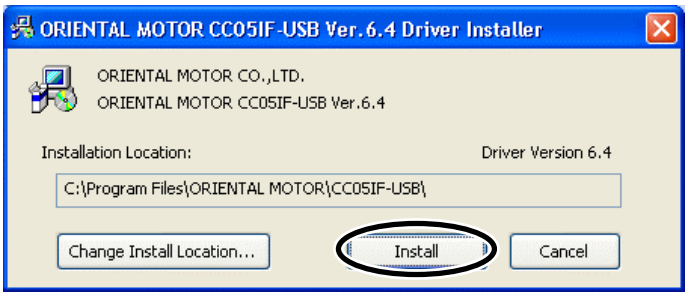
The following screen may be displayed in Windows Vista or Windows 7. Click [Yes] to proceed.


User Account Control
Do you want to allow the following program to make changes to this computer?
Program name: Driver Installation Utility
Verified publisher: Silicon Laboratories
File origin: CD/DVD drive
Show details
Yes
No
Change when these notifications appear

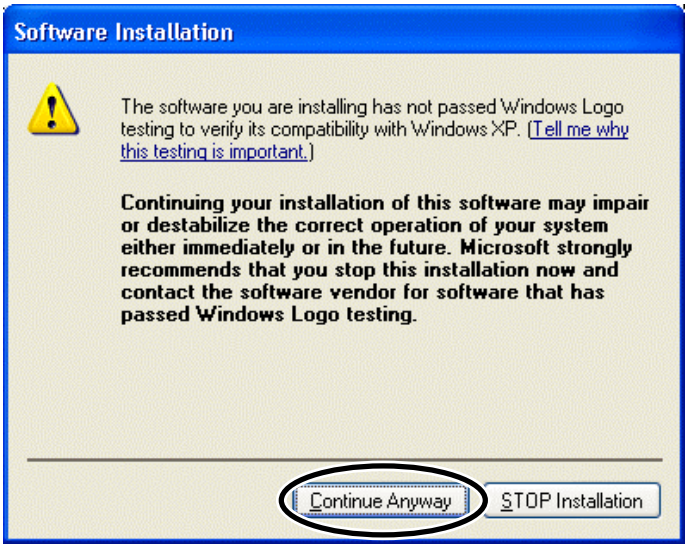
Or


User Account Control
Do you want to allow the following program from an unknown publisher to make changes to this computer?
Program name: setup.exe
Publisher: Unknown
File origin: CD/DVD drive
Show details
Yes
No
Change when these notifications appear

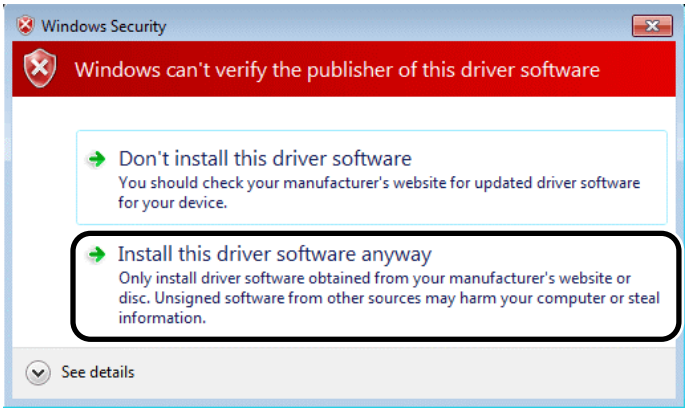
6. Click [Install].



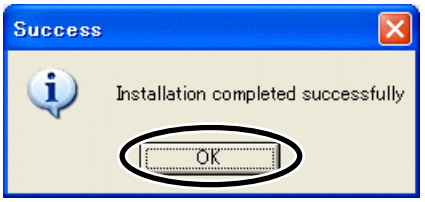
7. The following screen may be displayed in some cases. Click [Continue Anyway] to proceed.


Software Installation
The software you are installing has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.)
Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the software vendor for software that has passed Windows Logo testing.
Continue Anyway
STOP Installation

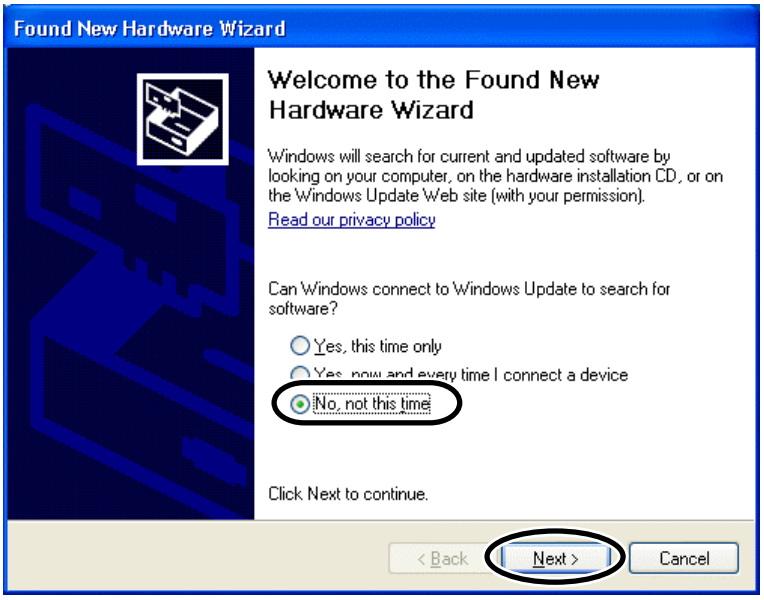
The following screen may be displayed in Windows Vista or Windows 7. Click [Install this driver software anyway] to proceed.


Windows Security
Windows can't verify the publisher of this driver software
Don't install this driver software
You should check your manufacturer's website for updated driver software for your device.
Install this driver software anyway
Only install driver software obtained from your manufacturer's website or disc. Unsigned software from other sources may harm your computer or steal information.
See details

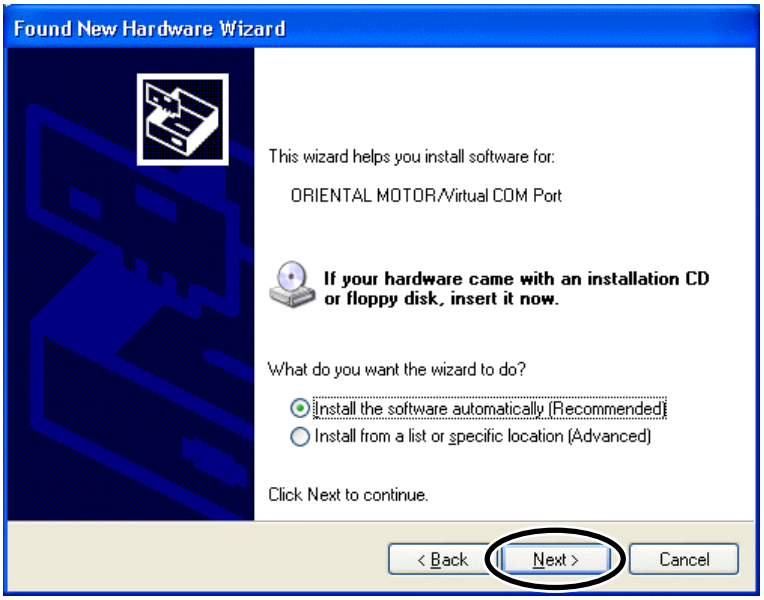
8. Click [OK].



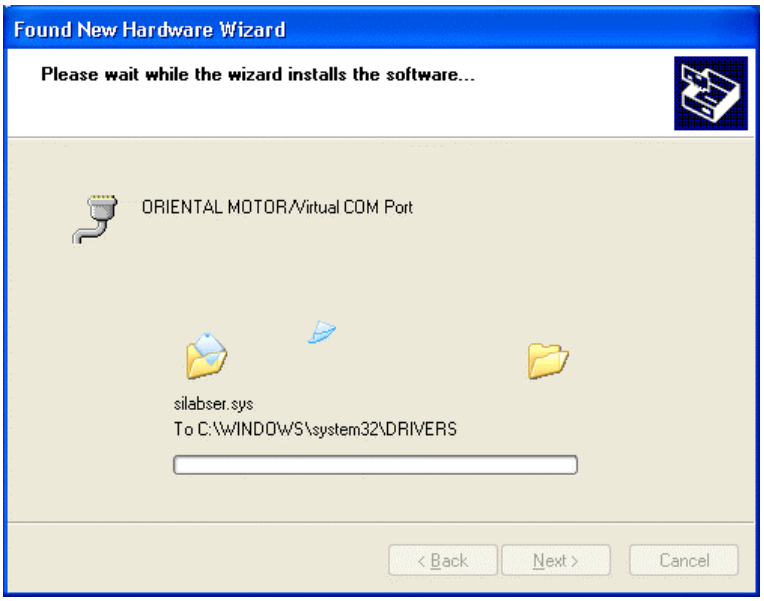
9. Plug the USB cable into the USB port on the PC.
If the following screen is displayed, select “No, not this time” and click [Next].
In Windows Vista or Windows 7, it will proceed to Step 12 automatically.


Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
Windows will search for current and updated software by looking on your computer, on the hardware installation CD, or on the Windows Update Web site (with your permission).
Read our privacy policy
Can Windows connect to Windows Update to search for software?
Yes, this time only
Yes, now and every time I connect a device
No, not this time
Click Next to continue.
< Back
Next >
Cancel

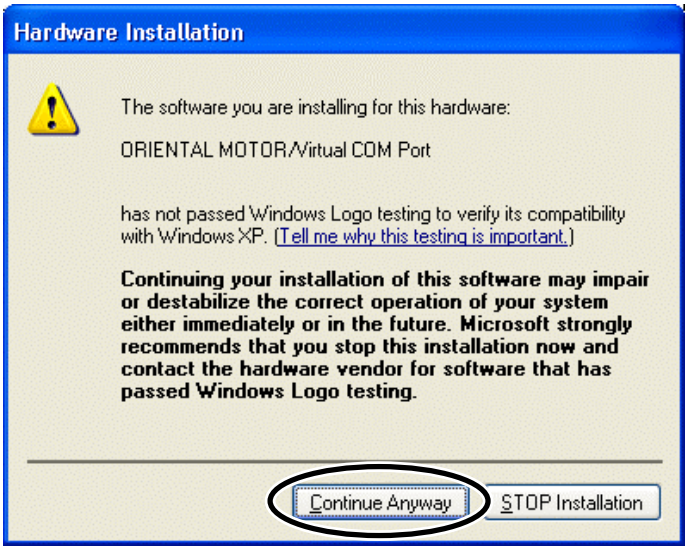
10. Click [Next].


Found New Hardware Wizard
This wizard helps you install software for:
ORIENTAL MOTOR/Virtual COM Port
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

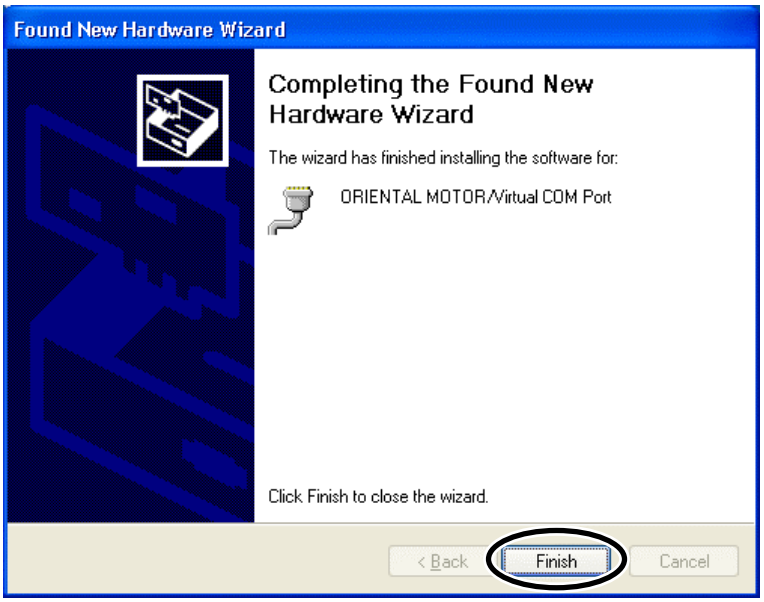
Setup starts installing the device driver.



11. The following screen may be displayed in some cases. Click [Continue Anyway] to proceed.


Hardware Installation
The software you are installing for this hardware:
ORIENTAL MOTOR/Virtual COM Port
has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.)
Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
Continue Anyway
STOP Installation

12. When the installation is complete, click [Finish].
The device driver has been successfully installed.

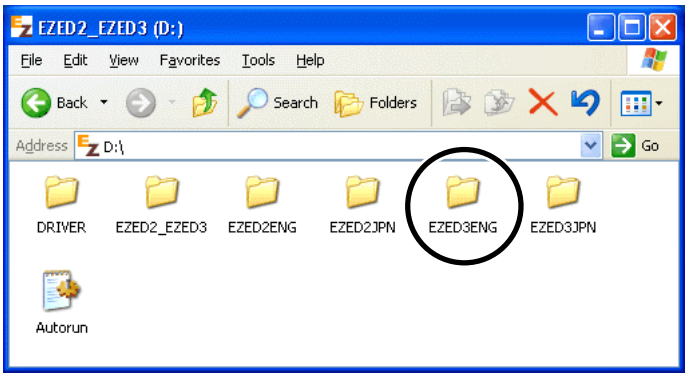

Found New Hardware Wizard
Completing the Found New Hardware Wizard
The wizard has finished installing the software for:
ORIENTAL MOTOR/Virtual COM Port
Click Finish to close the wizard.
< Back
Finish
Cancel

3.4 Installing the EZED3

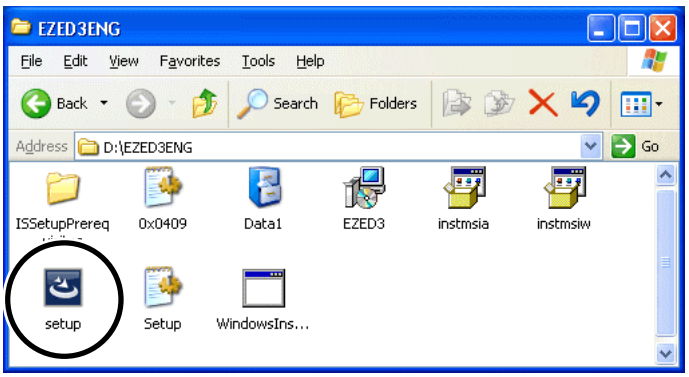
Note

- Administrator privilege is required for installation.
- Microsoft .NET Framework 2.0 Service Pack 2 must be installed in your PC in order to use the **EZED3**. Microsoft .NET Framework 2.0 Service Pack 2 will be automatically installed.
- The system may be restarted after installing the **EZED3**. Be sure to close all other applications.

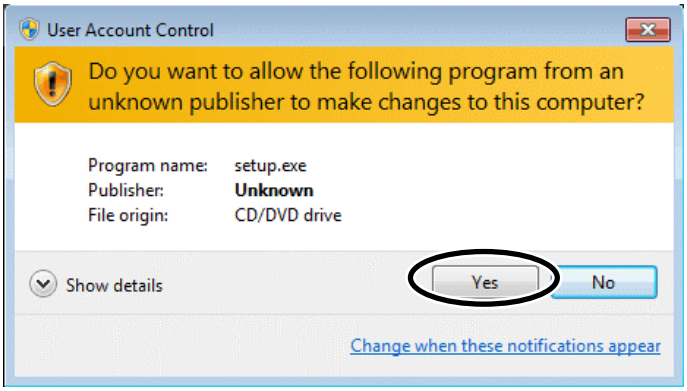
1. Insert the **EZED3** CD-ROM into your CD-ROM drive.
   A window pops up automatically, showing the folders on the CD-ROM.
2. Open the “EZED3ENG” folder on the CD-ROM.



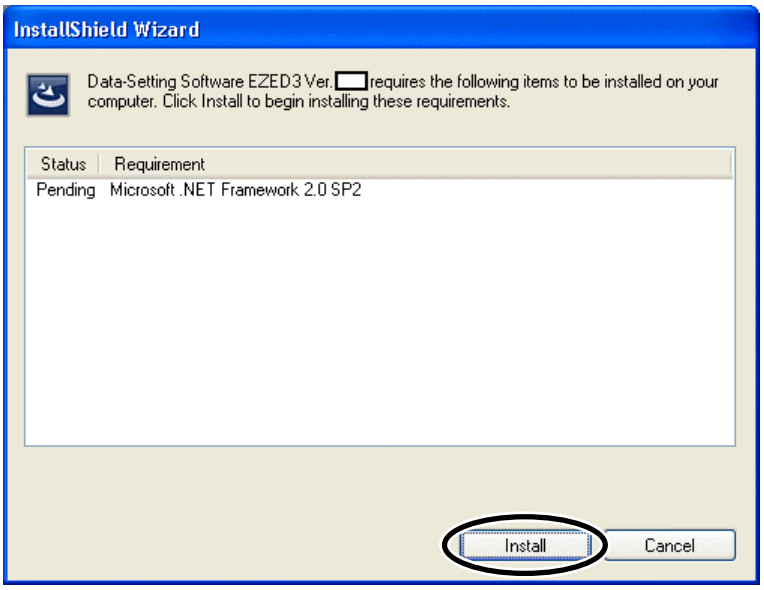
3. Start Setup.exe (setup program).



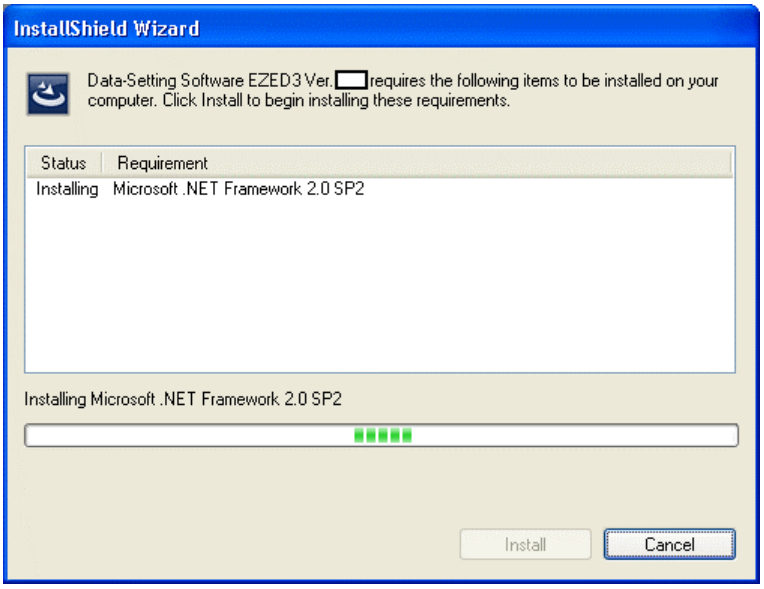
If Microsoft .NET Framework 2.0 Service Pack 2 is already installed in other operating system, it will proceed to Step 5.
The following screen may be displayed in Windows Vista or Windows 7. Click [Yes] to proceed.


User Account Control
Do you want to allow the following program from an unknown publisher to make changes to this computer?
Program name: setup.exe
Publisher: Unknown
File origin: CD/DVD drive
Show details
Yes
No
Change when these notifications appear

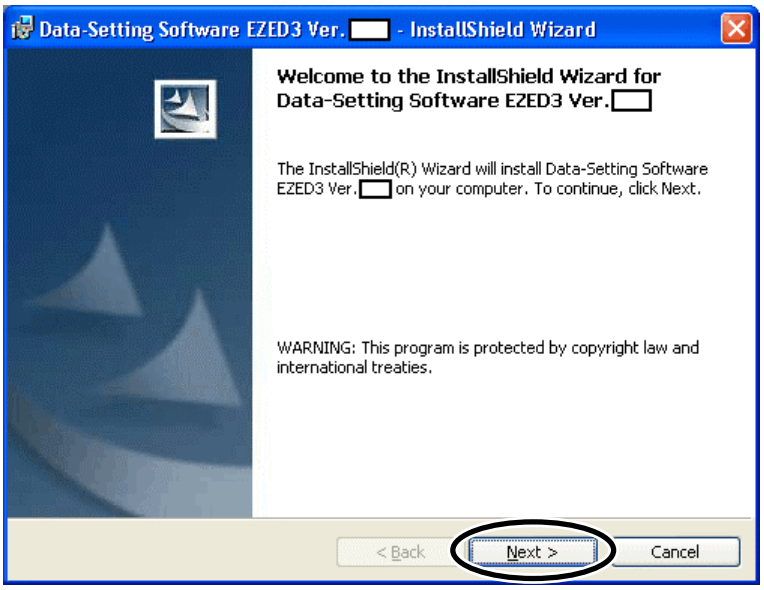
4. Click [Install].


InstallShield Wizard
Data-Setting Software EZED3 Ver. requires the following items to be installed on your computer. Click Install to begin installing these requirements.
Status
Requirement
Pending
Microsoft .NET Framework 2.0 SP2
Install
Cancel

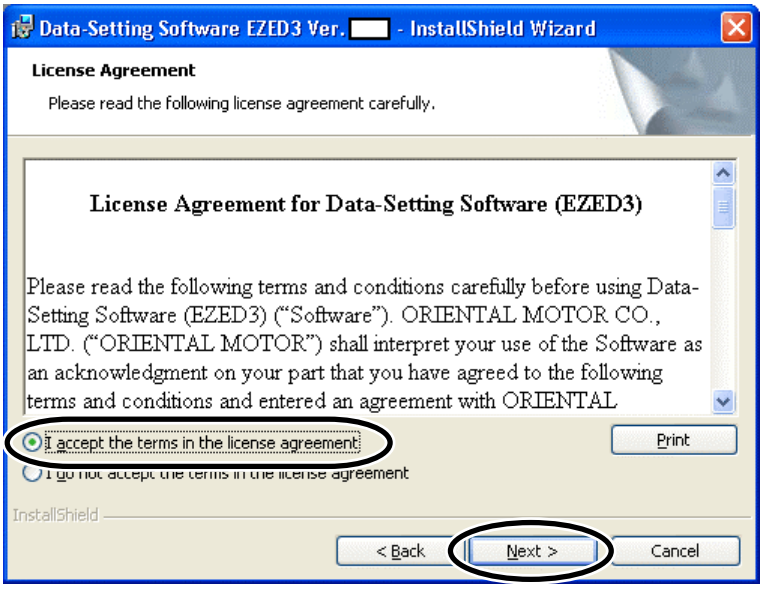
Microsoft .NET Framework 2.0 Service Pack 2 will be installed.


InstallShield Wizard
Data-Setting Software EZED3 Ver. requires the following items to be installed on your computer. Click Install to begin installing these requirements.
Status
Requirement
Installing
Microsoft .NET Framework 2.0 SP2
Installing Microsoft .NET Framework 2.0 SP2
Install
Cancel

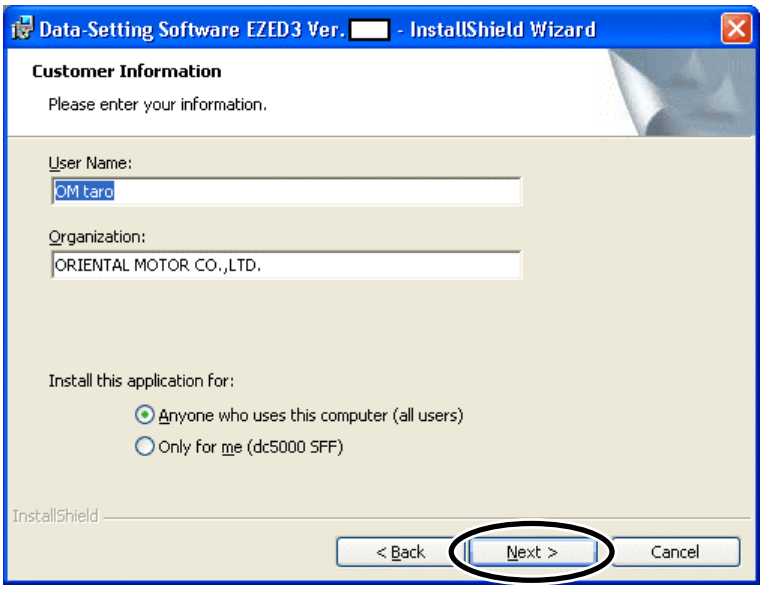
5. Click [Next].


Data-Setting Software EZED3 Ver. □ - InstallShield Wizard
Welcome to the InstallShield Wizard for Data-Setting Software EZED3 Ver.□
The InstallShield(R) Wizard will install Data-Setting Software EZED3 Ver.□ on your computer. To continue, click Next.
WARNING: This program is protected by copyright law and international treaties.
< Back
Next >
Cancel

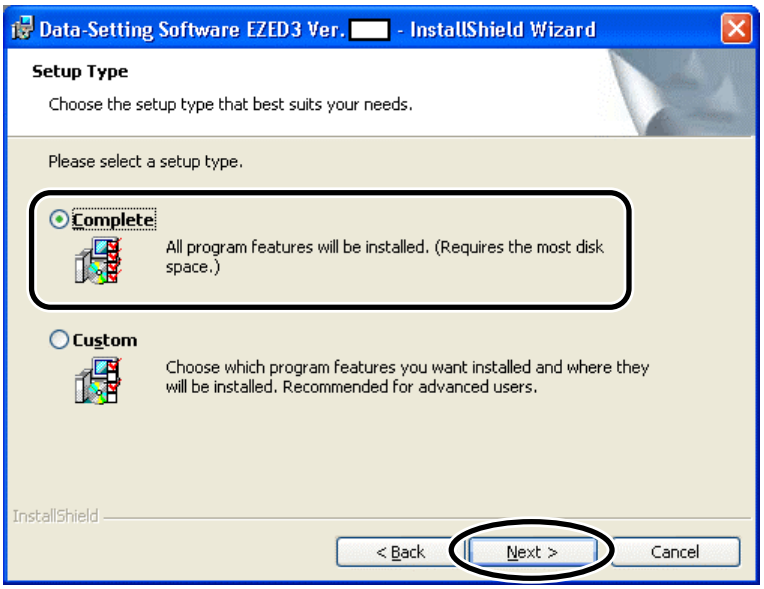
6. Read the terms of the agreement shown on the screen. If you agree with the terms, select "I accept the terms in the license agreement," and then click [Next].


Data-Setting Software EZED3 Ver. □ - InstallShield Wizard
License Agreement
Please read the following license agreement carefully.
License Agreement for Data-Setting Software (EZED3)
Please read the following terms and conditions carefully before using Data-Setting Software (EZED3) ("Software"). ORIENTAL MOTOR CO., LTD. ("ORIENTAL MOTOR") shall interpret your use of the Software as an acknowledgment on your part that you have agreed to the following terms and conditions and entered an agreement with ORIENTAL
I accept the terms in the license agreement
I do not accept the terms in the license agreement
Print
InstallShield
< Back
Next >
Cancel

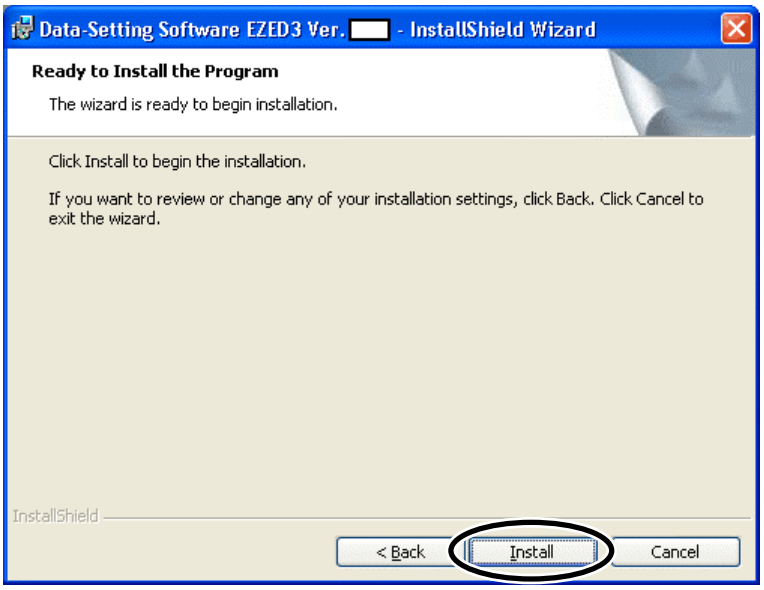
7. Enter the user name and organization, and click [Next].



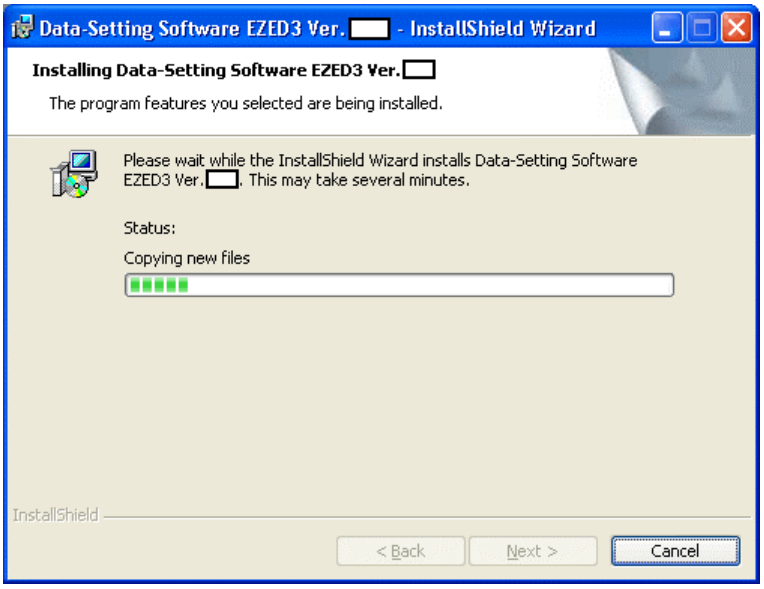
8. Select “Complete” under Setup Type, and click [Next].


Data-Setting Software EZED3 Ver. - InstallShield Wizard
Setup Type
Choose the setup type that best suits your needs.
Please select a setup type.
Complete
All program features will be installed. (Requires the most disk space.)
Custom
Choose which program features you want installed and where they will be installed. Recommended for advanced users.
InstallShield
< Back
Next >
Cancel

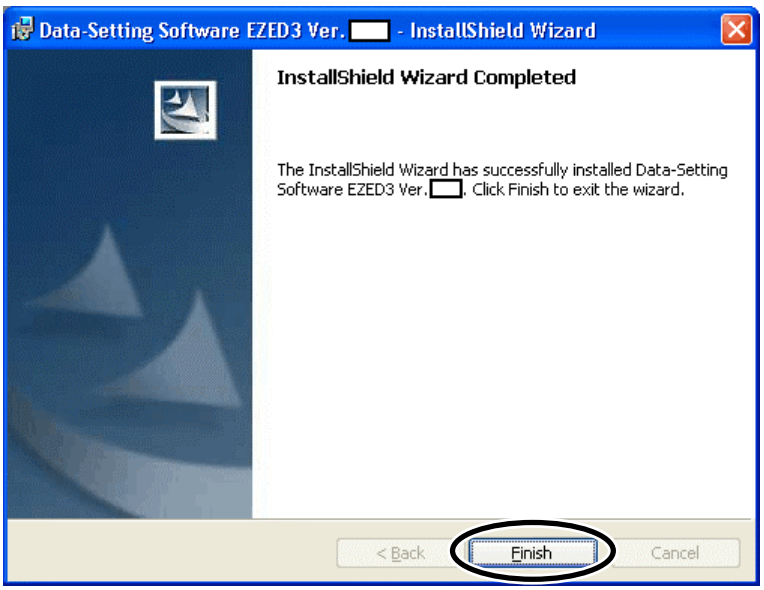
9. Click [Install].


Data-Setting Software EZED3 Ver. □ - InstallShield Wizard
Ready to Install the Program
The wizard is ready to begin installation.
Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
InstallShield
< Back
Install
Cancel

Setup starts installing the **EZED3**.


Data-Setting Software EZED3 Ver. □ - InstallShield Wizard
Installing Data-Setting Software EZED3 Ver. □
The program features you selected are being installed.
Please wait while the InstallShield Wizard installs Data-Setting Software EZED3 Ver. □. This may take several minutes.
Status:
Copying new files
InstallShield
< Back
Next >
Cancel

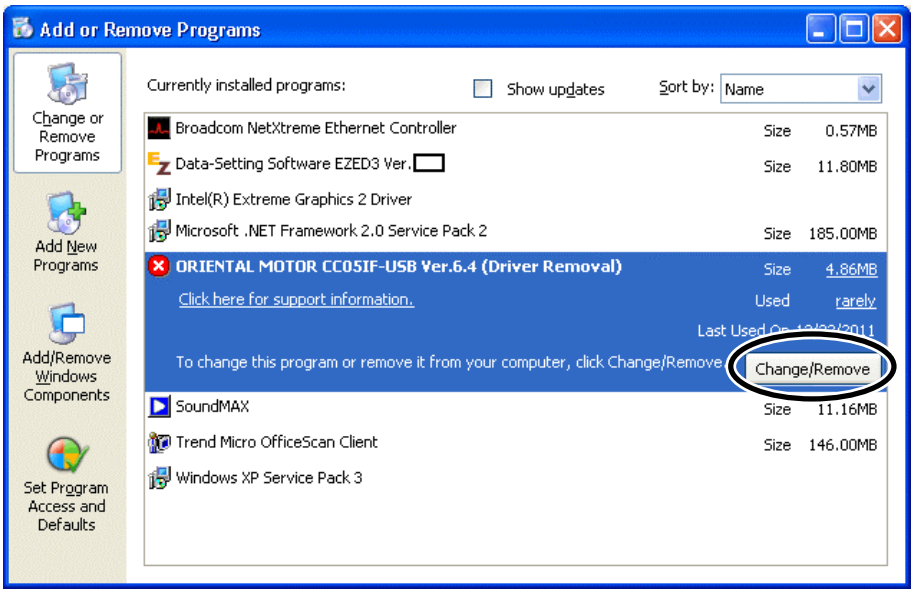
10. When the installation is complete, click [Finish].
The **EZED3** has been successfully installed.


Data-Setting Software EZED3 Ver. - InstallShield Wizard
InstallShield Wizard Completed
The InstallShield Wizard has successfully installed Data-Setting Software EZED3 Ver. . Click Finish to exit the wizard.
< Back
Finish
Cancel

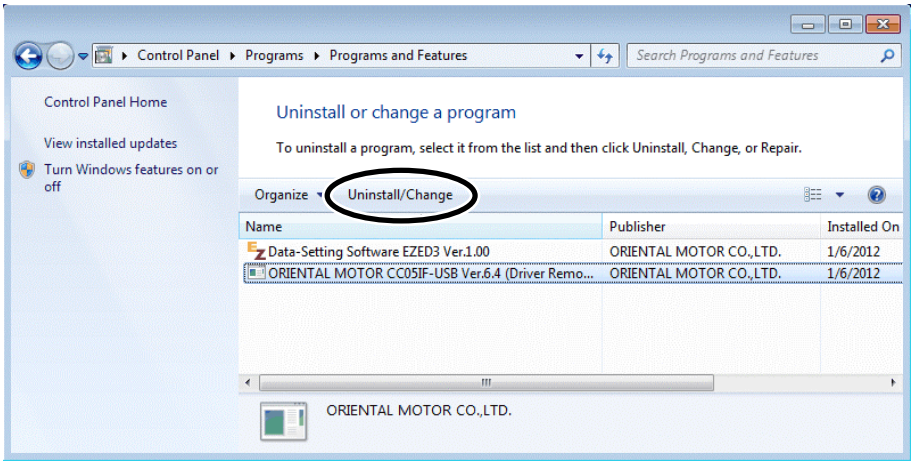
3.5 Uninstalling the device driver

Uninstall the device driver according to the following procedures.

1. Disconnect the USB cable from the USB port on the PC.
2. Click [Start] in the task bar, and then click [Control Panel].
3. In Control Panel, click “Add or Remove Programs”.
Windows Vista: Click “Uninstall a program”.
Windows 7: Click “Programs and Features”.
4. Select “ORIENTAL MOTOR CC05IF-USB (Driver Removal)” in the list, and then click [Change/Remove].

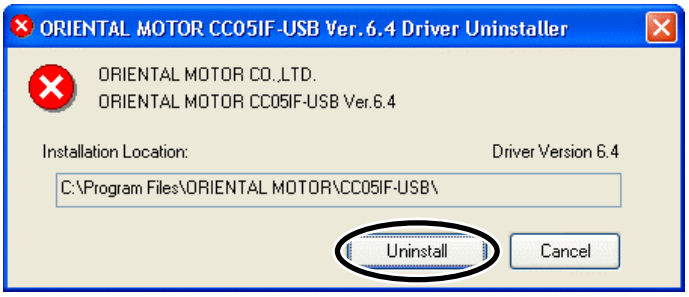

Add or Remove Programs
Change or Remove Programs
Add New Programs
Add/Remove Windows Components
Set Program Access and Defaults
Currently installed programs:
Show updates
Sort by: Name
Broadcom NetXtreme Ethernet Controller Size 0.57MB
Data-Setting Software EZED3 Ver. Size 11.80MB
Intel(R) Extreme Graphics 2 Driver
Microsoft .NET Framework 2.0 Service Pack 2 Size 185.00MB
ORIENTAL MOTOR CC05IF-USB Ver.6.4 (Driver Removal) Size 4.86MB
Click here for support information. Used rarely
To change this program or remove it from your computer, click Change/Remove.
Change/Remove
SoundMAX Size 11.16MB
Trend Micro OfficeScan Client Size 146.00MB
Windows XP Service Pack 3

Windows Vista or Windows 7: Click [Uninstall/Change]



The "User Account Control" screen may be displayed in Windows Vista. Click [Continue] to proceed.

5. Click [Uninstall].
The device driver is uninstalled.



6. Click [OK].
The device driver has been successfully uninstalled.

7. A message to prompt to restart the PC may be displayed. Restart the PC.
When the uninstallation is complete, the device driver is removed from the list.

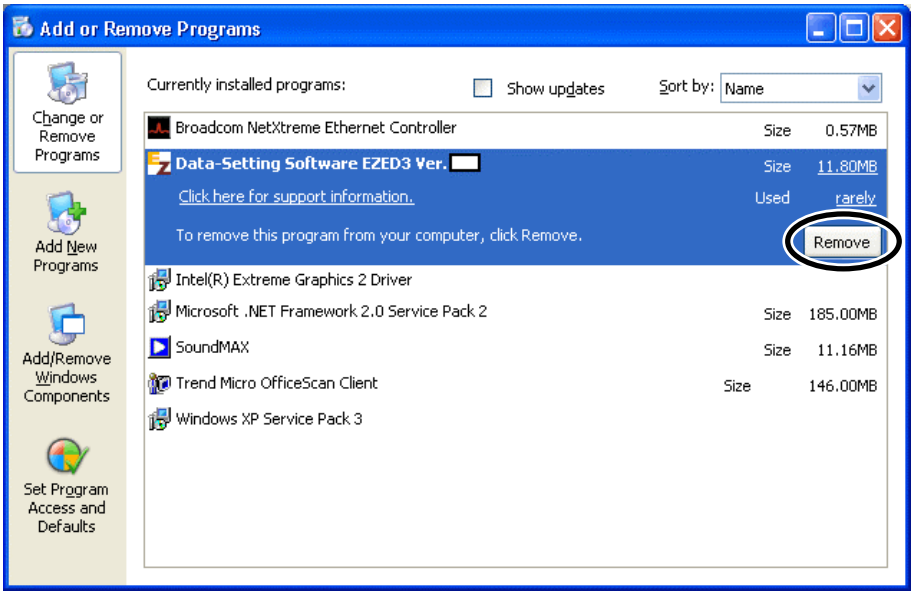
Note The uninstallation of the device driver will become effective by restarting the PC.

3.6 Uninstalling the EZED3

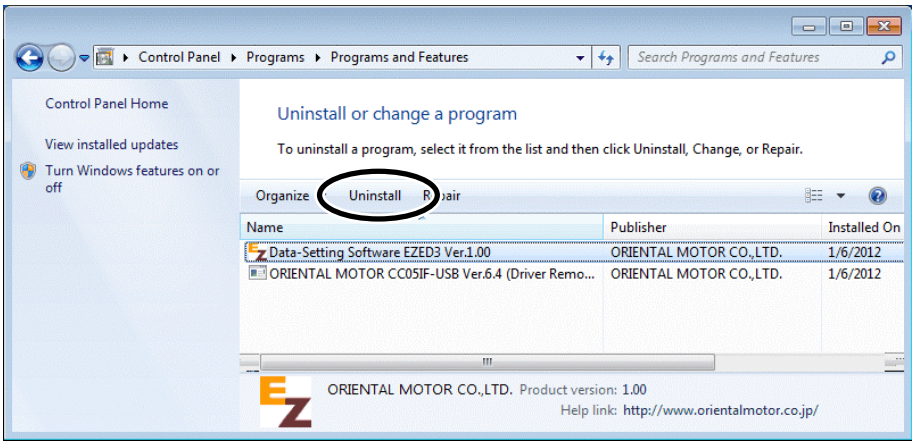
Uninstall the **EZED3** according to the following procedures.

Note Administrator privilege is required for uninstallation.

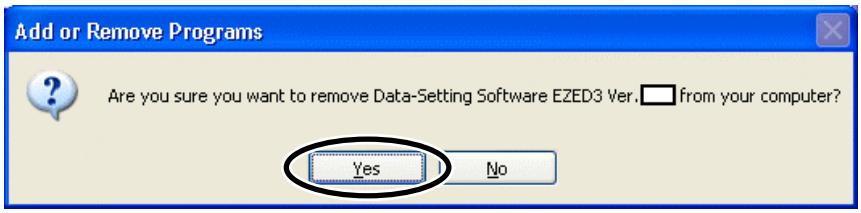
1. Disconnect the USB cable from the USB port on the PC.
2. Click [Start] in the task bar, and then click [Control Panel].
3. In Control Panel, click “Add or Remove Programs”.
   Windows Vista: Click “Uninstall a program”.
   Windows 7: Click “Programs and Features”.
4. Select the “**EZED3**” in the list, and then click [Remove].



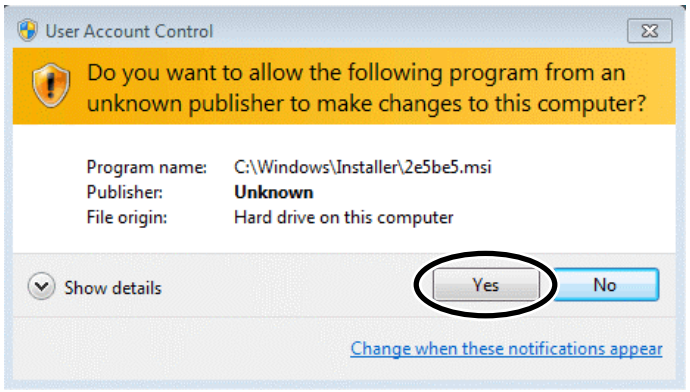
Windows Vista or Windows 7: Click [Uninstall]



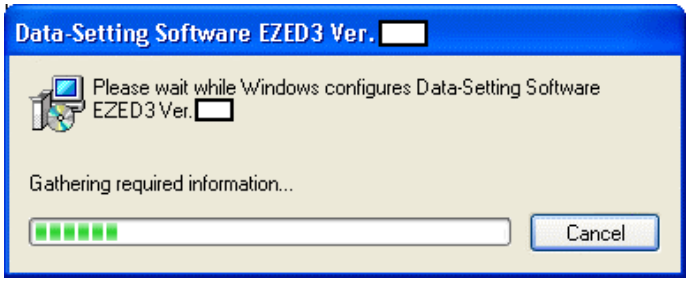
5. Click [Yes].



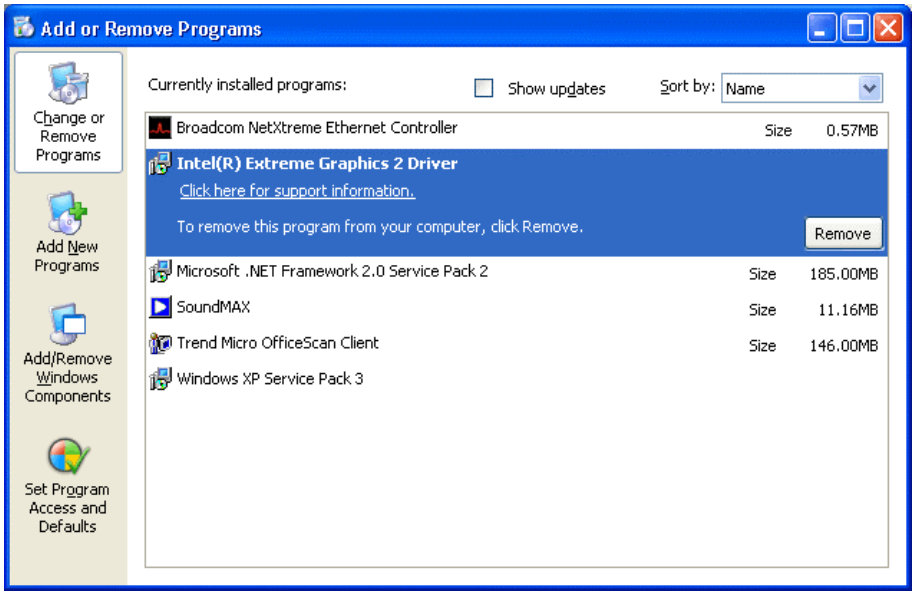
The following screen may be displayed in Windows Vista or Windows 7. Click [Yes] to proceed.


User Account Control
Do you want to allow the following program from an unknown publisher to make changes to this computer?
Program name: C:\Windows\Installer\2e5be5.msi
Publisher: Unknown
File origin: Hard drive on this computer
Show details
Yes
No
Change when these notifications appear

The **EZED3** is uninstalled.


Data-Setting Software EZED3 Ver.
Please wait while Windows configures Data-Setting Software EZED3 Ver.
Gathering required information...
Cancel

When the uninstallation is complete, the **EZED3** is removed from the list.



4 Connection, startup and shutdown

This chapter explains how to connect your PC to an applicable product and startup/shutdown the **EZED3**.

Note Administrator privilege is required to use the **EZED3**.

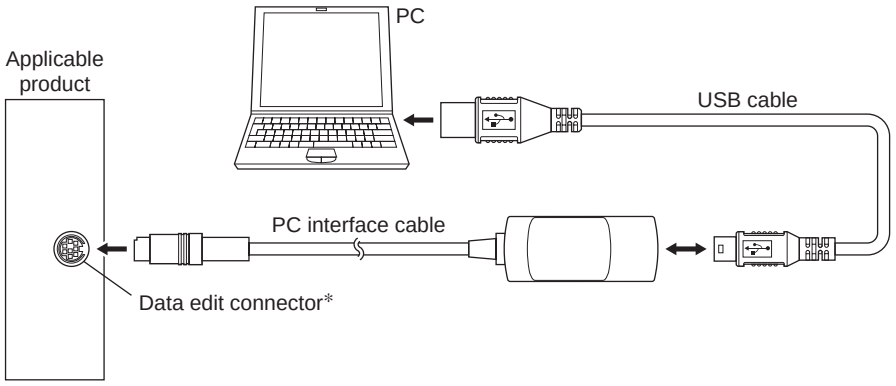
4.1 Connection method

⚠ Caution When grounding the positive terminal of the power supply, do not connect any equipment (PC, etc.) whose negative terminal is grounded. Doing so may cause the equipment and applicable product to short, damaging both.

Note Connect your PC to an applicable product using the accessory PC interface cable (sold separately) and USB cable.

■ Connecting to an applicable product

1. Turn off the PC and applicable product.
2. Connect motor to applicable product.
3. Plug the accessory PC interface cable (sold separately) into the data edit connector on the applicable product.
   Plug the USB cable into the USB port on the PC.
4. Connect the PC interface cable and USB cable.

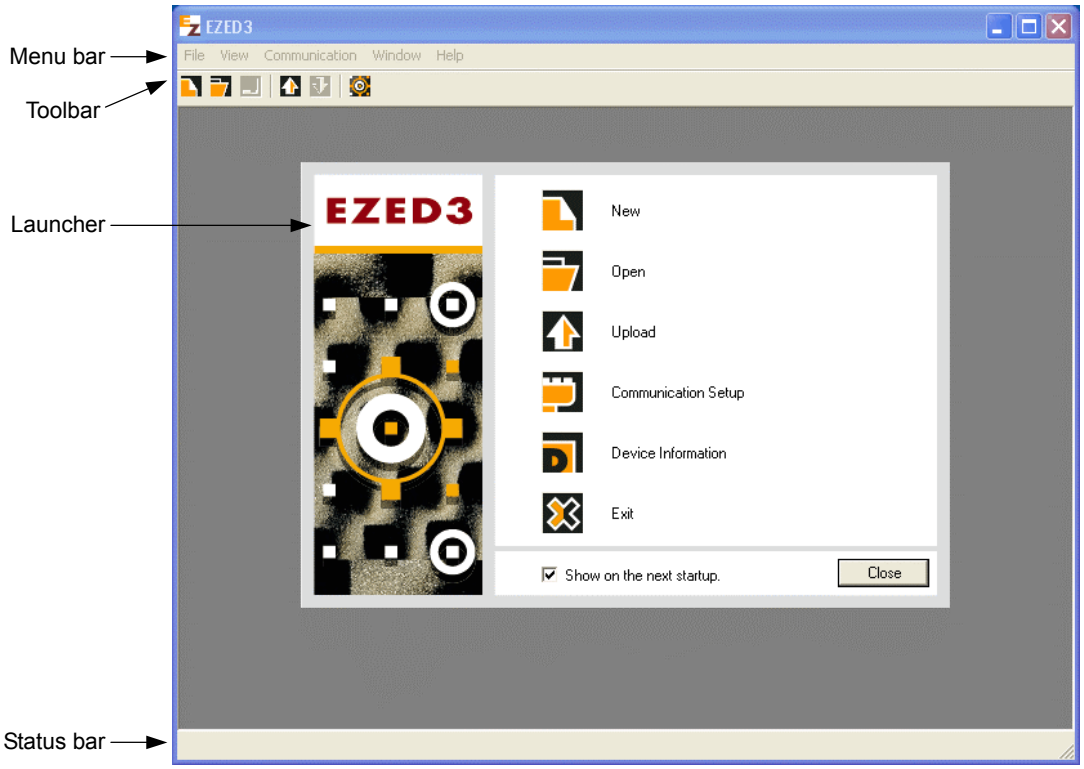


* The position of the data edit connector varies depending on the applicable product.

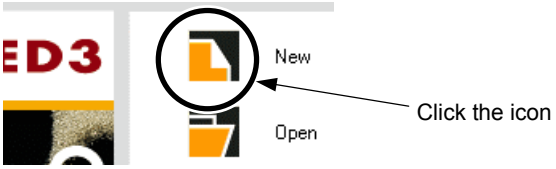
5. Turn on the power to the PC and applicable product, and start the PC.

4.2 Starting the EZED3

Double-click the **EZED3** icon on the desktop to start the **EZED3**.
Once **EZED3** has started, the following window appears.



When the **EZED3** is activated, the launcher will be displayed.
You can access each function directly by clicking each icon of the launcher.

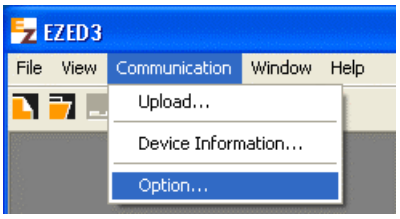


Also, the launcher is displayed on the toolbar as a "launcher call button."

4.3 Setting up the communication port

If you have connected the PC and an applicable product for the first time, set up the communication port.

1. Click [Option] from the [Communication] menu.

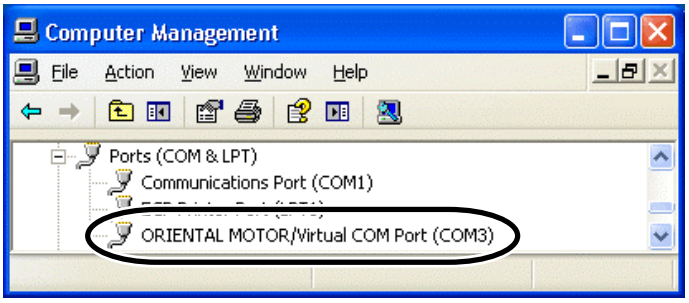


2. Select the communication port to which the USB cable is connected, and click [OK].

If communication cannot be established even through the applicable product power is input and the correct communication port is selected, select this check box and then set up the communication line again.

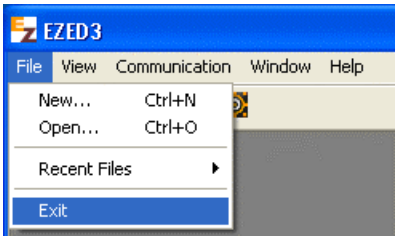
■ Confirming the communication port number

1. Right-click the “My Computer” icon on the Desktop and click “Properties”.
   The system properties will be displayed.
2. Click the “Hardware” tab and then click [Device Manager].
3. Double-click “Port (COM & LPT)”.
   Confirm the port number labeled as “ORIENTAL MOTOR/Virtual COM Port”. In the example below, it is COM3.



4.4 Shutting down

Click [Exit] from the [File] menu.
The **EZED3** shuts down.



5 Editing data

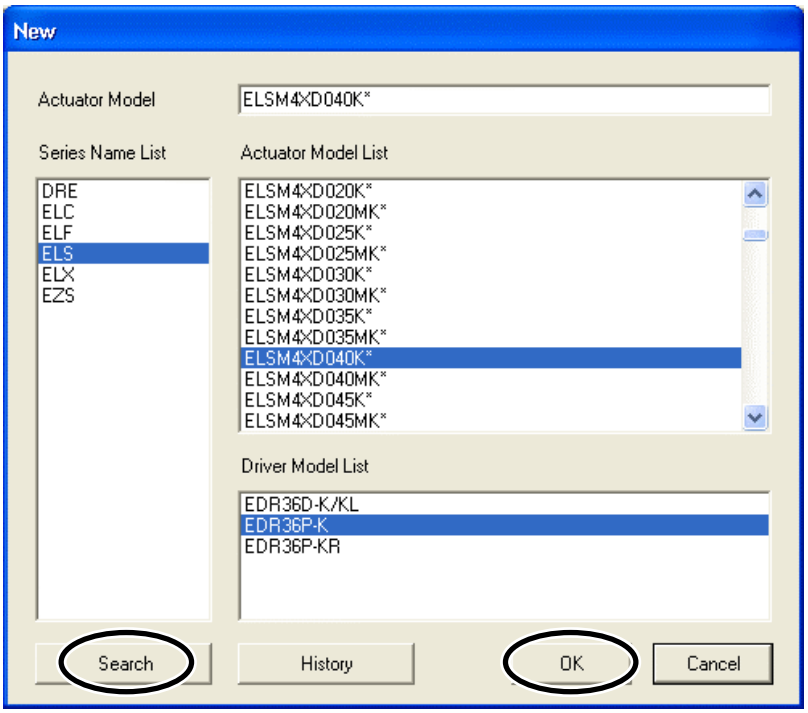
This chapter explains how to create data files, edit operation data and parameters, and store edited data. Data can be created from scratch or by editing existing data. Both require different procedures, so read the section corresponding to each method.
The screens provided in the explanation below are those displayed in an **ELS** Series position driver type.

Note Administrator privilege is required to use the **EZED3**.

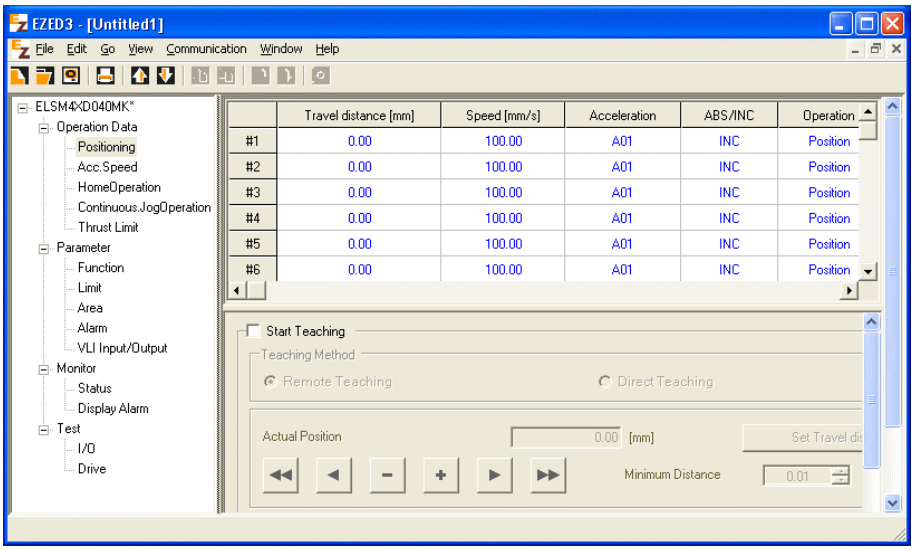
5.1 Creating new data

1. Click the “New” icon in the toolbar.

2. Select the series name, actuator model name and driver model name and then click [OK].
When the applicable product is connected, the model will be searched automatically by clicking [Search] after selecting the series name.



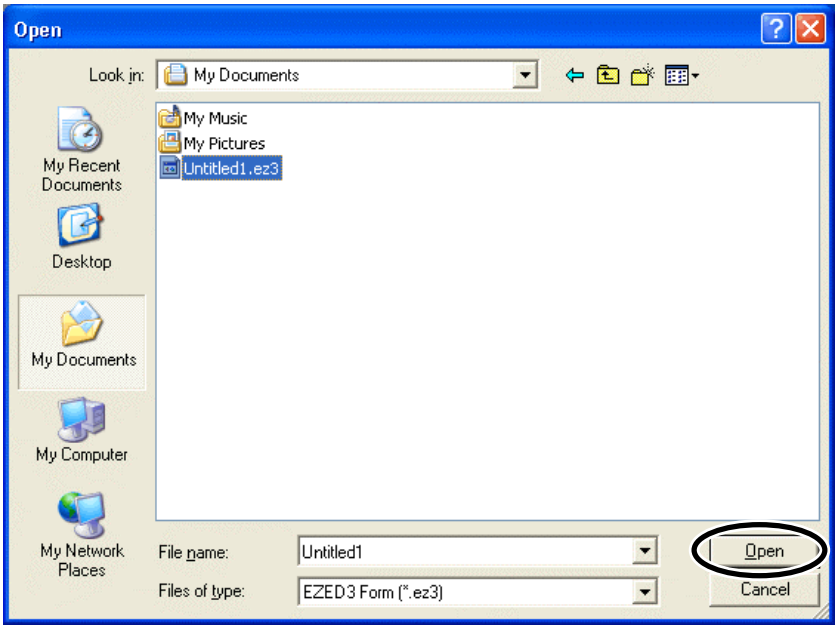
The data edit window appears.
Example: Operation data edit window for the **ELS** Series position driver type



5.2 Opening an existing data file

1. Click the “Open” icon in the toolbar.

2. Select the file you want to edit, and click [Open].

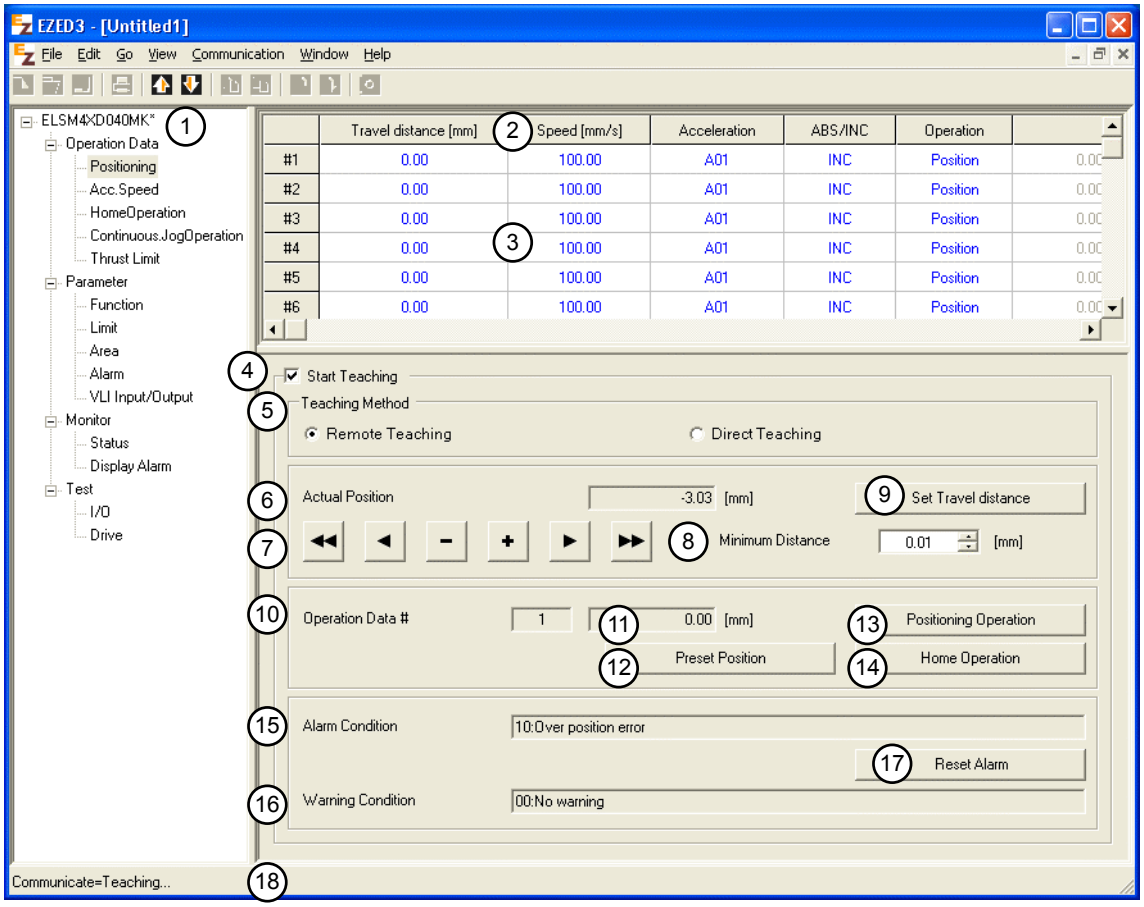


The data edit window appears, just like when you are creating a new data file.

5.3 Editing data in the data edit window

Note Changing the data in the **EZED3** does not change the data in the applicable product. In order to change the data in the applicable product, a download must be performed. See p.42 for procedures of downloading.

■ Explanation of operation data



No.	Name	Description		
1	Window selection	Operation Data	Positioning	Data required for positioning operation (travel, operating speed, etc.).
			Acc. Speed	Acceleration/deceleration speed for positioning operation, return-to-home operation and continuous/Jog operation
			Home Operation	Data for return-to-home operation (return-to-home method, return-to-home direction, etc.)
			Continuous. Jog Operation	Data for continuous/Jog operation (acceleration/deceleration, operating speed, etc.)
			Thrust Limit	Data for thrust limit operation (thrust limit value, thrust change time, etc.)

No.	Name	Description		
1	Window selection	Parameter	Function	Parameter for operation of the motorized actuator (operating current, stop current, etc.)
			Limit	Parameter for softlimit, logic of external limit sensor, etc.
			Area	Parameter for AREA signal
			Alarm	Parameter for alarm and warning (travel life distance, motor alarm temperature, driver warning temperature, etc.)
			VLI Input/Output	Parameter for I/O signal (logic, signal assignment, etc.)
		Monitor	Status	Actuator's current status or I/O signal status (based on the logic)
			Display alarm	Present alarm status, alarm records
		Test	I/O	Check of current-carrying status of I/O signals
			Drive	Perform the test operation.
2	Setting item	Operation data and parameter name are shown.		
3	Cell	Enters data in cells.		
4	Start Teaching	The following functions can be enabled or disabled: Teaching, test operation, alarm monitor		
5	Teaching Method	Selects teaching method. Remote teaching: Perform teaching operation using the Jog operation button. Direct teaching: Turn the motor current off and perform teaching operation by moving the motorized actuator moving part manually.		
6	Actual Position	Displays the position of the motorized actuator moving part.		
7	Jog operation (buttons)	In remote teaching, these buttons are used to move the motorized actuator moving part.		
8	Minimum Distance	Sets the resolution of the motorized actuator in remote teaching. (This setting is effective only during test operation.)		
9	Set Travel distance (button)	Clicking this button sets the position displayed in the “Actual Position” to the selected operation data.		
10	Operation Data #	The operation data number to perform test operation is shown.		
11	Travel distance	The travel distance for the selected operation data number is shown.		
12	Preset Position (button)	Clicking this button sets the current position to the origin.		
13	Positioning Operation (button)	Clicking this button performs positioning operation with the selected data.		
14	Home Operation (button)	Clicking this button performs return-to-home operation.		
15	Alarm Condition	The alarm condition is shown.		
16	Warning Condition	The warning condition is shown.		
17	Reset Alarm (button)	Clicking this button resets the present alarms. Note that some alarms cannot be reset.		
18	Communication Status	Communication status between the **EZED3** and driver is shown. It is blank when the **EZED3** is not communicating with the driver.		

■ Data entry

Colors of the cells and letters are as follows.

Color of cells	White: When the data edit window was opened (New, Open, Upload, etc.) Yellow: When the setting was changed in the data input window
Color of letters	Blue: Default value Black: Except default value

Entering a numerical value directly

Click a desired cell, enter a value using the keyboard, and then press the ENT key.

	Travel distance [mm]	Speed [mm/s]
#1	0.00	100.00
#2	0.00	100.00

Selecting an item from a pull-down menu

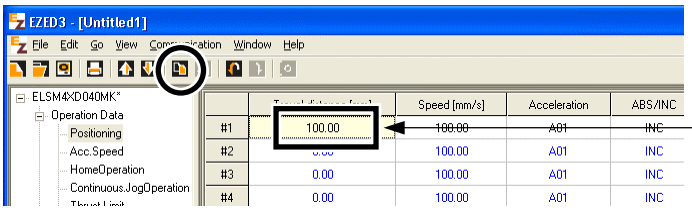
Double-clicking a desired cell displays a pull-down menu. Select a desired value from the pull-down menu.

Return-to-home method	Sensorless
Return-to-home direction	2sensors 3sensors Sensorless
Return-to-home accuracy	
Return-to-home speed [mm/s]	50.00
Return-to-home acceleration	A01
Return-to-home offset [mm]	0.00

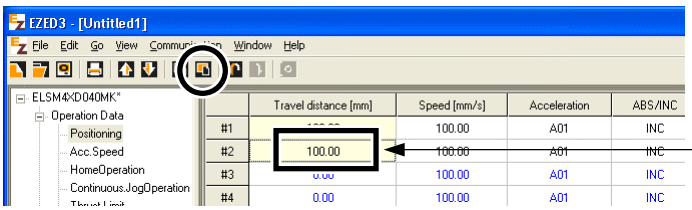
■ Copying and pasting data

You can copy an entered value and paste it into a different cell. Copying and pasting lets you quickly populate multiple cells with the same value.

1. Select the data you want to copy, and then click the “Copy” icon in the toolbar.
   You can select a single cell or multiple cells.



2. Click the cell you want to paste the data into, and then click the “Paste” icon in the toolbar.

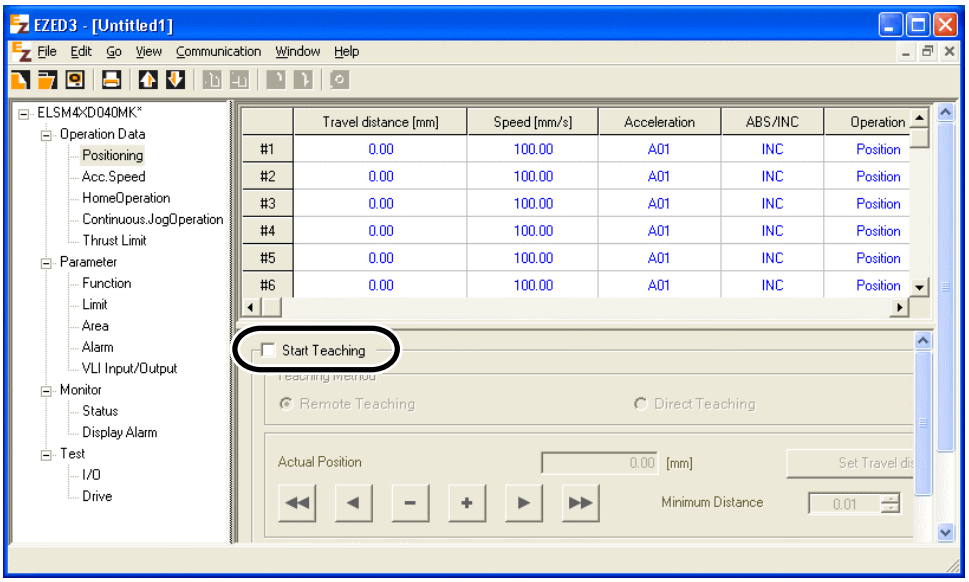


5.4 Teaching

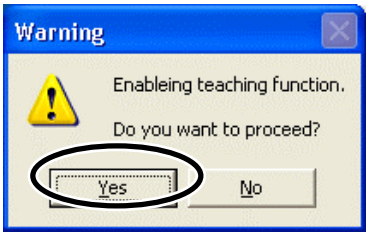
You can physically move the motorized actuator moving part and set the achieved position as operation data. This operation is called “teaching.” There are two ways for teaching, which are remote teaching and direct teaching.

Remote teaching	Move the motorized actuator moving part using the buttons in the **EZED3** window. The achieved position is set as operation data.
Direct teaching	With the motor current turned off, move the motorized actuator moving part by hand. The achieved position is set as operation data.

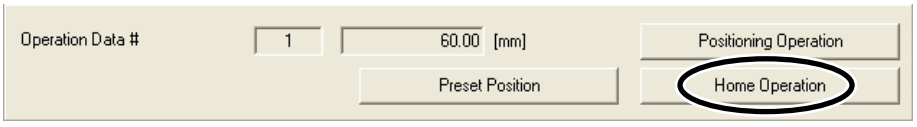
1. Select “Start Teaching” in the operation data setting window.
   If the "Start Teaching" is checked, the window selection cannot be changed since communication with the driver takes a priority. Clearing the check in the box enables changing windows selection.



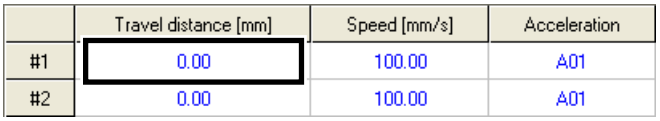
2. Click [Yes].
   Teaching operation is enabled.



3. Click [Home Operation].
   Return-to-home operation is performed.



4. Click the cell containing the travel amount you want to change.



	Travel distance [mm]	Speed [mm/s]	Acceleration
#1	0.00	100.00	A01
#2	0.00	100.00	A01

5. Move the motorized actuator moving part.

• Remote teaching

Click the [Remote Teaching] under "Teaching Method" and move the moving part using the Jog operation button. Set the resolution under “Minimum Distance.”

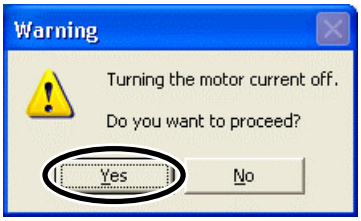
◀◀ Move the moving part in the negative direction by −direction CHG-V speed.
◀ Move the moving part in the negative direction by −direction operation speed.
− Move the motorized actuator in the negative direction by Jog travel distance.
+ Move the motorized actuator in the positive direction by Jog travel distance.
▶ Move the moving part in the positive direction by +direction operation speed.
▶▶ Move the moving part in the positive direction by +direction CHG-V speed.

Note

- The operating speed using the Jog operation button can be set in [Continuous/Jog Operation] under [Operation Data].
- Before performing remote teaching, always close all other programs. If other programs are still running, the motorized actuator may not operate correctly.

• Direct teaching

Click [Direct Teaching] under “Teaching Method.” When the message dialog box appears, click [Yes]. This turns off the motor current. Then, move the motorized actuator moving part by hand.



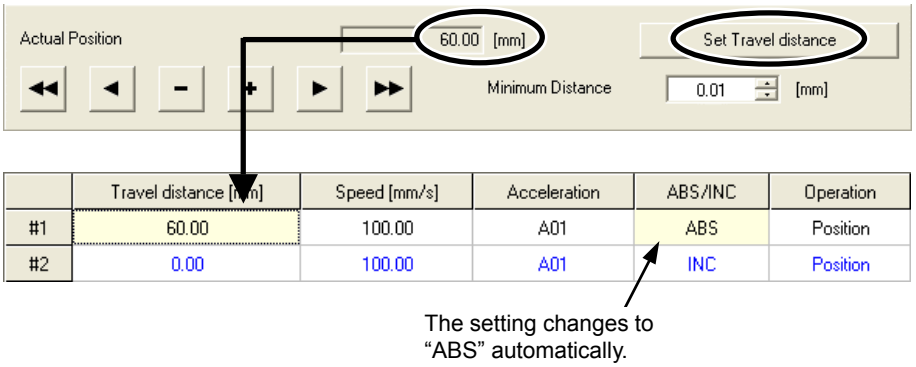
Note

If the motorized actuator is installed in an orientation other than horizontal, do not turn off motor current regardless of whether the motorized actuator is operating or stopped. Turning off the motor current cuts off the holding torque of the motor, which may cause the load to drop.

6. With the motorized actuator moving part at a desired position, click [Set Travel distance].

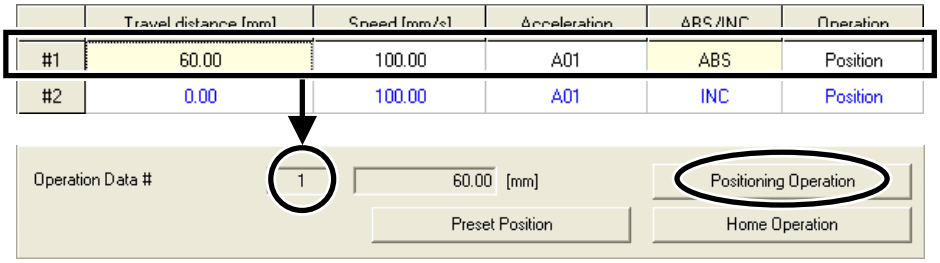
The "Actual Position" is entered in the cell selected in step 4.

When position data is changed via teaching, the ”ABS/INC" of the applicable operation data will change to “ABS” automatically.



7. After performing the direct teaching, set the motor to excitation by clicking [Remote Teaching] under "Teaching Method."

8. Click the operation data number that performs positioning operation.
The selected operation data number is displayed at the bottom of the window.

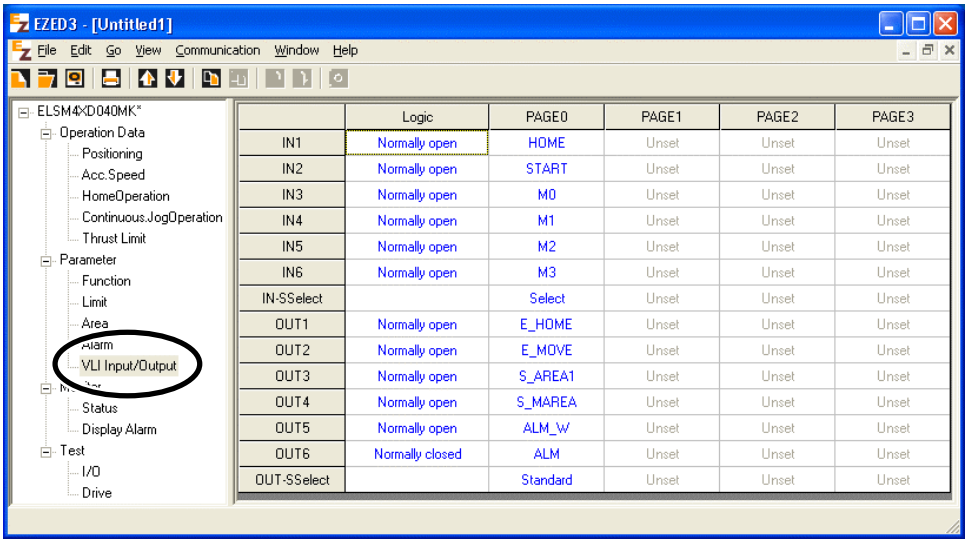


9. Click [Positioning Operation].
The positioning operation of the selected operation data number is executed.

5.5 Assignment of I/O signals

I/O signals of the driver can be assigned by the VLI Input/Output window.

1. In the window selection area, click [VLI Input/Output] under [Parameter].
The VLI Input/Output window appears.



■ Data entry

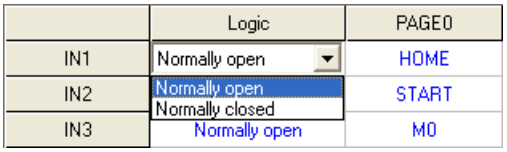
Colors of the cells and letters are as follows.

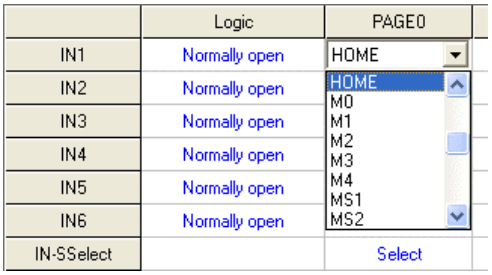
Color of cells	White: When the data edit window was opened (New, Open, Upload, etc.) Yellow: When the setting was changed in the data input window
Color of letters	Blue: Default value Black: Except default value

"Unset" cells in PAGE1 to PAGE3 cannot be edited. When the page switching signal is set in the input signal of PAGE0, the color of "Unset" cells will be changed to blue color and you can edit them.
For details, refer to p.35.

- When assigning the signal individually

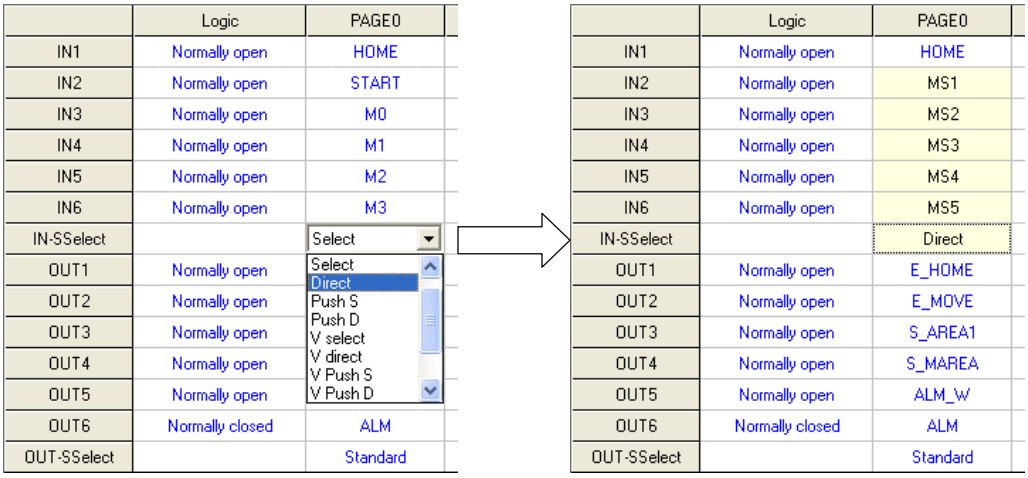
Double-clicking a desired cell displays a pull-down menu. Select a desired value from the pull-down menu.





- When assigning the listed signal set (I/O set select function)

"I/O set select function" is used to set 6 inputs and 6 outputs at one time according to various operation patterns. When selecting the operation pattern from the "IN-S Select" or "OUT-S Select" of the pull-down menu, the standard I/O signal set will be set automatically.
See the USER MANUAL for details of I/O set select function.



5.6 VLI (Variable Layer I/O) function

"VLI function" is a function in which the signals for a maximum of 4 pages can be assigned by making the signal set of 6 inputs and 6 outputs into 1 page (PAGE).
The PAGE can be switched using the page switching signals (VLI0, VLI1).
The page switching signal will be assigned to the same input signal of all pages. Therefore, when 4 pages (PAGE 0 to PAGE3) are used, maximum 16 input signals and 24 output signals can be used since total 8 input signals (each 2 input signals per page) are used as the page switching signals.

■ Setting method of PAGE

- When setting signals to PAGE0 and PAGE1 (2 pages)

  Set VLI0 to the input signal of PAGE0. Then VLI0 is set to PAGE1 automatically, and "Unset" cells become editable.

  Example: When setting VLI0 to IN6 in PAGE0

	Logic	PAGE0	PAGE1
IN1	Normally open	HOME	Unset
IN2	Normally open	START	Unset
IN3	Normally open	M0	Unset
IN4	Normally open	M1	Unset
IN5	Normally open	M2	Unset
IN6	Normally open	M3	Unset
IN-SSelect		RESET RETURN SET-P SSTART START STOP VLI0 VLI1	Unset
OUT1	Normally open		Unset
OUT2	Normally open		Unset
OUT3	Normally open		Unset
OUT4	Normally open		Unset
OUT5	Normally open	ALM_W	Unset
OUT6	Normally closed	ALM	Unset
OUT-SSelect		Standard	Unset

	Logic	PAGE0	PAGE1
IN1	Normally open	HOME	Unset
IN2	Normally open	START	Unset
IN3	Normally open	M0	Unset
IN4	Normally open	M1	Unset
IN5	Normally open	M2	Unset
IN6	Normally open	VLI0	VLI0
IN-SSelect		Custom	Custom
OUT1	Normally open	E_HOME	Unset
OUT2	Normally open	E_MOVE	Unset
OUT3	Normally open	S_AREA1	Unset
OUT4	Normally open	S_MAREA	Unset
OUT5	Normally open	ALM_W	Unset
OUT6	Normally closed	ALM	Unset
OUT-SSelect		Standard	Unset

IN6 of PAGE1 will automatically change to VLI0, and you will be able to edit signals of IN1 to IN5, OUT1 to OUT6 and OUT_S Select.

- When setting signals to PAGE0 to PAGE3 (4 pages)

  Set VLI0 and VLI1 to the input signals of PAGE0. And VLI0 and VLI1 will be set to PAGE1 to PAGE3 automatically, and then "Unset" cells will be able to edit.

  Example: When setting VLI1 to IN5 and VLI0 to IN6 in PAGE0

	Logic	PAGE0	PAGE1	PAGE2	PAGE3
IN1	Normally open	HOME	Unset	Unset	Unset
IN2	Normally open	START	Unset	Unset	Unset
IN3	Normally open	M0	Unset	Unset	Unset
IN4	Normally open	M1	Unset	Unset	Unset
IN5	Normally open	VLI1	VLI1	VLI1	VLI1
IN6	Normally open	VLI0	VLI0	VLI0	VLI0
IN-SSelect		Custom	Custom	Custom	Custom
OUT1	Normally open	E_HOME	Unset	Unset	Unset
OUT2	Normally open	E_MOVE	Unset	Unset	Unset
OUT3	Normally open	S_AREA1	Unset	Unset	Unset
OUT4	Normally open	S_MAREA	Unset	Unset	Unset
OUT5	Normally open	ALM_W	Unset	Unset	Unset
OUT6	Normally closed	ALM	Unset	Unset	Unset
OUT-SSelect		Standard	Unset	Unset	Unset

IN5 and IN6 will automatically change to VLI, and you will be able to edit signals of IN1 to IN4, OUT1 to OUT6 and OUT_S Select.

■ Switching the PAGE

The active PAGE can be switched by the input combination of VLI0 and VLI1.

VLI0	VLI1	Active PAGE
OFF	OFF	PAGE0
ON		PAGE1
OFF	ON	PAGE2
ON		PAGE3

Note Setting invalid value via a network converter causes the blank cell when uploading data using the **EZED3**. Use pull-down menu by double-clicking the blank cell. Select the item from the pull-down menu.

5.7 Saving a data file

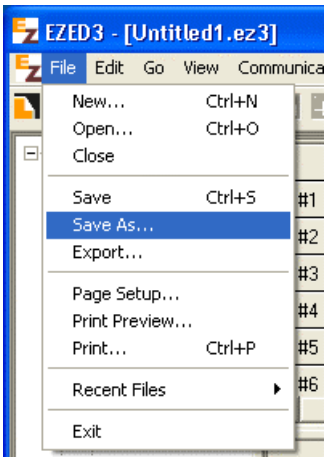
The data edited by the **EZED3** or data read from the applicable product will be saved as a file.
Data files can be saved in the dedicated file format (.ez3) of the **EZED3** or CSV format (.csv).

■ Saving data by overwriting

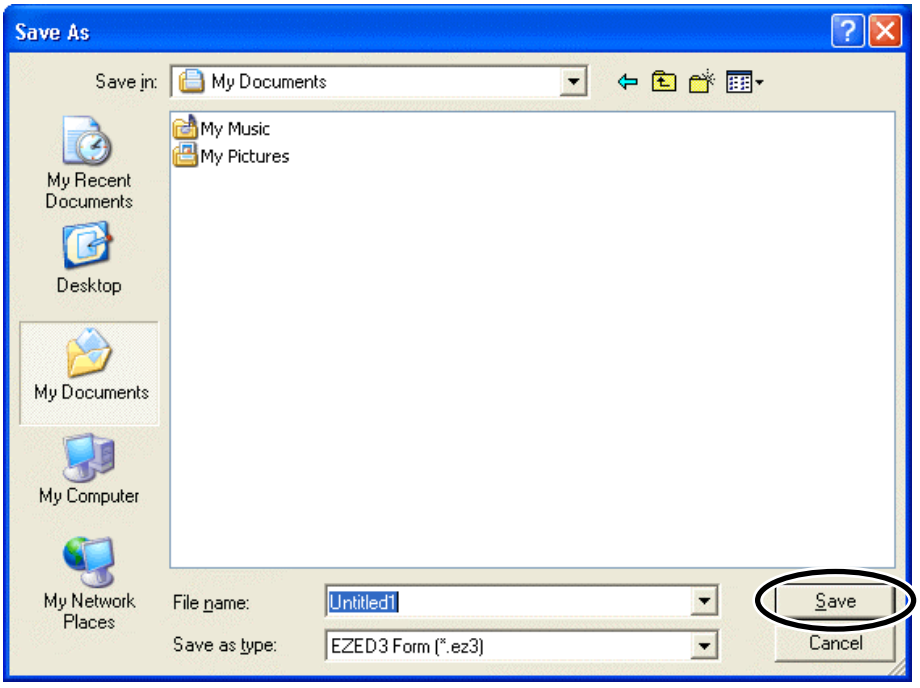
Click the “Save” icon in the toolbar.
The editing data is saved over the existing data.

■ Saving data under a different name

1. Click [Save As] from the [File] menu.



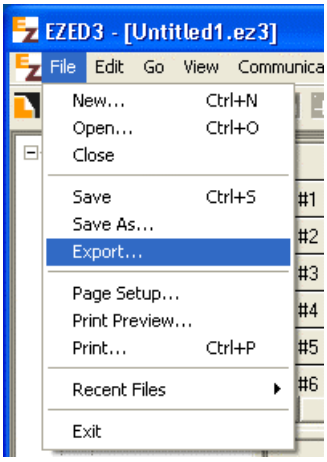
2. Enter a new file name, and click [Save].
The data is saved under the specified name.



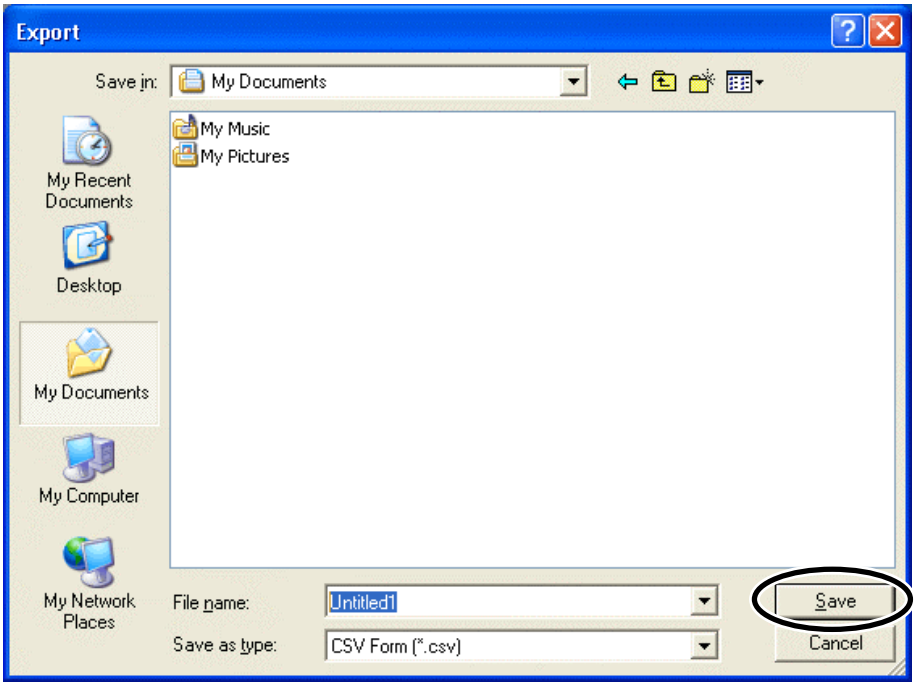
■ Saving data in CSV format

Data saved in the CSV format can be edited in other application.
Note that once saved in the CSV format, files can no longer be opened or edited in the **EZED3**.
To edit a CSV file by the **EZED3**, open the file within the application used for the CSV format then copy and paste all the data to the **EZED3**.

1. Click [Export] from the [File] menu.



2. Enter a file name, and click [Save].
All operation data and parameters are saved in CSV format.

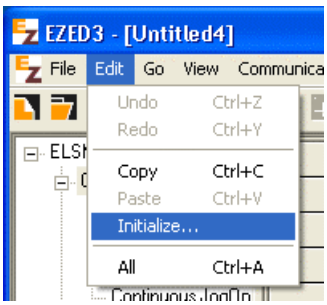


5.8 Restoring the data to the default

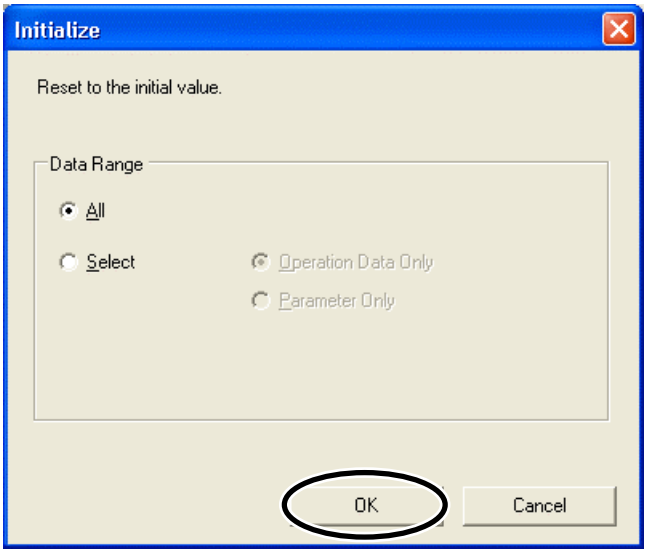
■ Restoring edited data

You can initialize the data you have edited in the data edit window.

1. Click [Initialize] from the [Edit] menu.

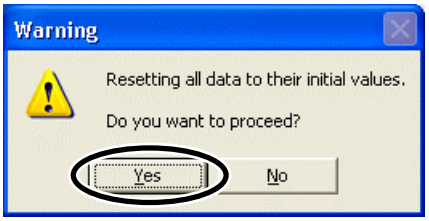


2. Select the data you want to initialize, and click [OK].



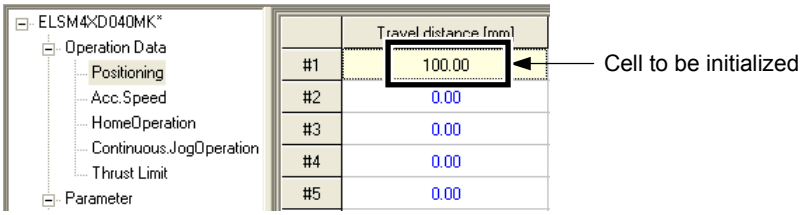
Setting Item		Initialized data
All		All operation data and parameters
Select	Operation data only	Positioning operation, acceleration/deceleration speed, return-to-home operation, continuous/Jog operation, thrust limit operation
	Parameter only	Function parameter, limit parameter, area parameter, alarm parameter, VLI Input/Output

3. Click [Yes].
The editing data is initialized.

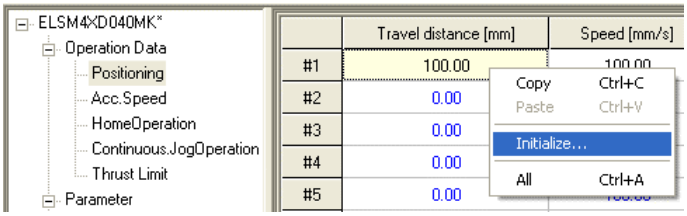


■ Restoring default data in selected cells

1. In the data edit window, select the cell you want to restore.



2. Click the right mouse button, and click [Initialize].
The value in the selected cell returns to the default.



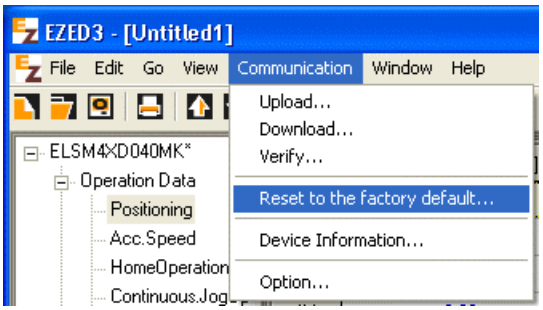
■ Restoring the applicable product to default settings

You can restore data stored in the non-volatile memory of an applicable product.

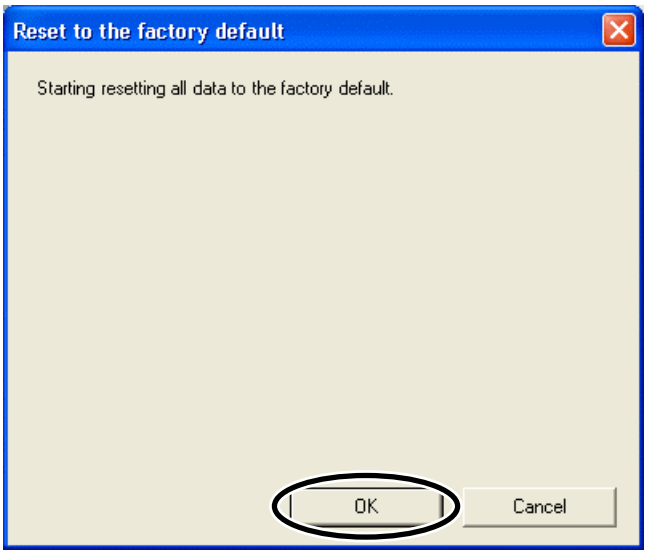
Note

- The non-volatile memory of an applicable product can be rewritten approx. 100,000 times.
- Do not turn off the applicable product power while the initialization is still in progress. Doing so may damage the data.

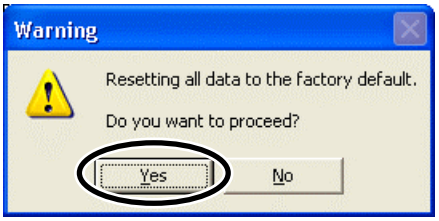
1. Click [Reset to the factory default] from the [Communication] menu.



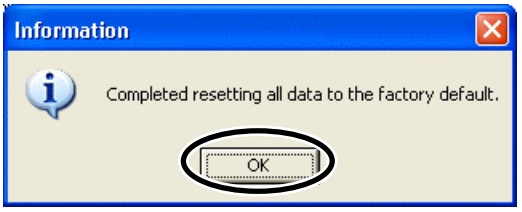
2. Click [OK].



3. Click [Yes].
The specified data in the non-volatile memory of an applicable product is restored.

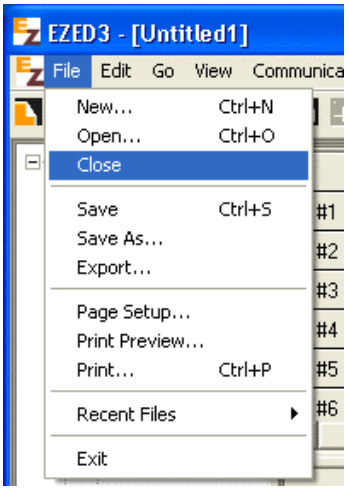


4. When the restore is complete, click [OK].



5.9 Ending data edit

To close the data edit window, click [Close] from the [File] menu.



6 Data upload/download and verification

This chapter explains how to write the **EZED3** data to an applicable product (download), read data from an applicable product into the **EZED3** (upload), and verify the **EZED3** data against applicable product data.
The screens provided in the explanation below are those displayed in an **ELS** Series position driver type.

Note Administrator privilege is required to use the **EZED3**.

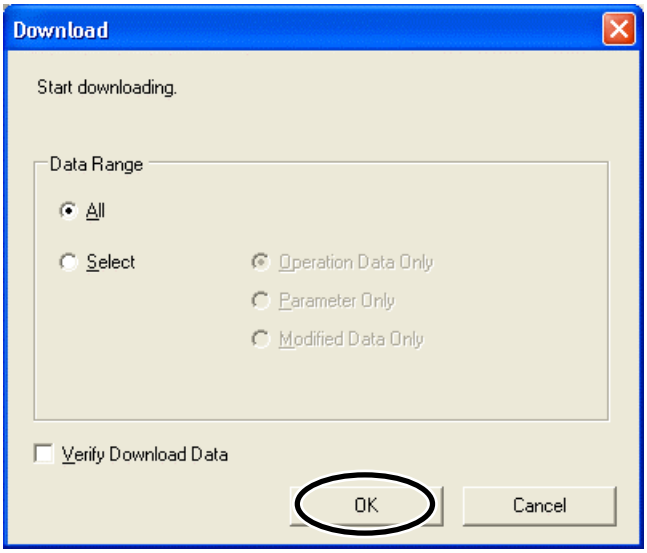
6.1 Download data to the applicable product (writing)

You can write data created in the **EZED3** to an applicable product.

Note
- The non-volatile memory of an applicable product can be rewritten approximately 100,000 times.
- Do not turn off the power of the applicable product while the download is in progress. Doing so may damage the data.

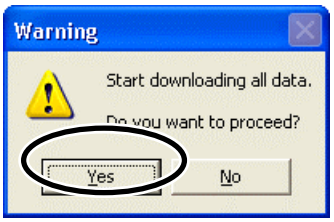
1. Click the “Download” icon in the toolbar.

2. Select the data to be downloaded, and then click [OK].



Setting Item		Downloaded data
All		All operation data and parameters
Select	Operation data only	Positioning operation, acceleration/deceleration speed, return-to-home operation, continuous/Jog operation, thrust limit operation
	Parameter only	Function parameter, limit parameter, area parameter, alarm parameter, VLI Input/Output
	Modified data only	Changed data only

3. Click [Yes].
   The data downloading is started.



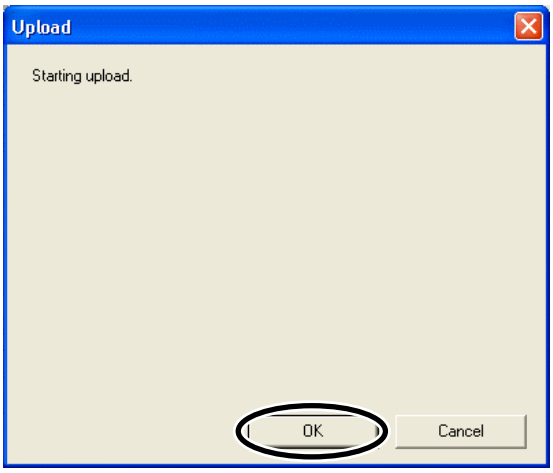
4. After the data downloading is completed, click [OK].

6.2 Upload from the applicable product (reading)

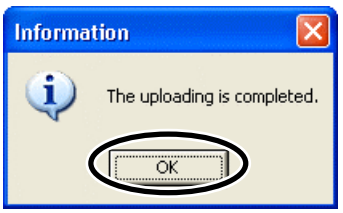
You can read data stored in an applicable product into the **EZED3**.

1. Click the “Upload” icon in the toolbar.

2. Click [OK].
   The data uploading is started.



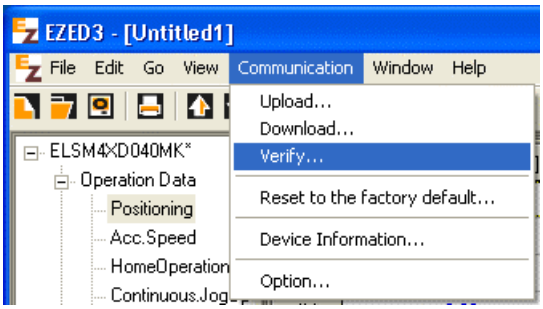
3. After the data has been uploaded, click [OK].
   The data that has been uploaded is displayed in the data edit window.



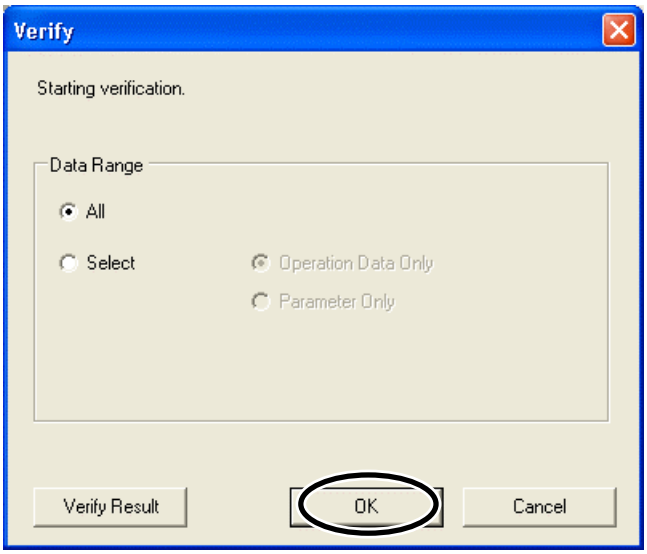
6.3 Verifying data

You can verify the data stored in an applicable product against the data displayed in the **EZED3**.

1. Click [Verify] from the [Communication] menu.

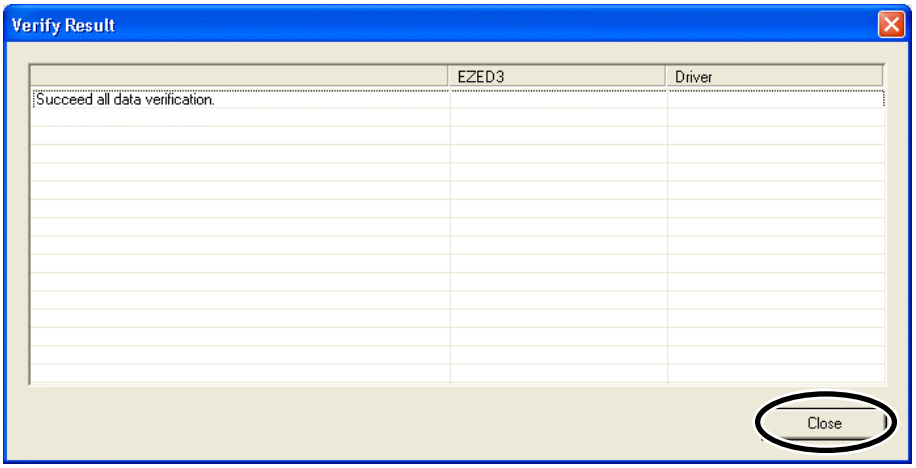


2. Select the data to be verified, and then click [OK].
Data verification is started.

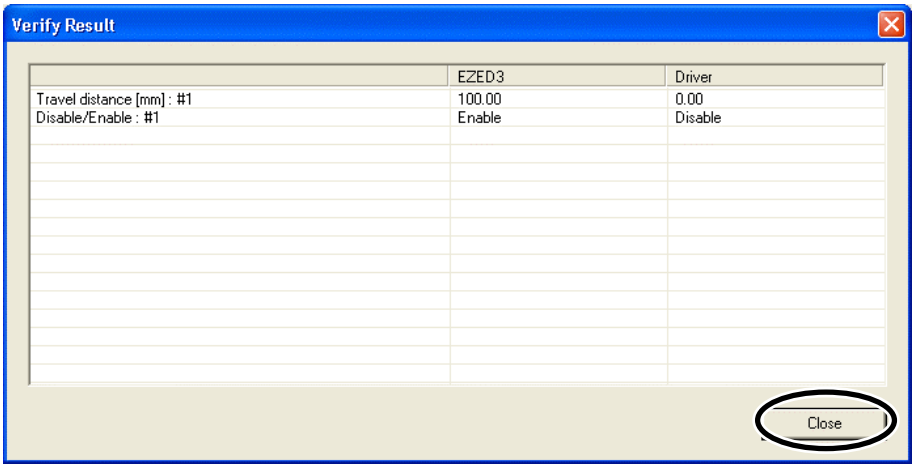


Setting Item		Verified data
All		All operation data and parameters
Select	Operation data only	Positioning operation, acceleration/deceleration speed, return-to-home operation, continuous/Jog operation, thrust limit operation
	Parameter only	Function parameter, limit parameter, area parameter, alarm parameter, VLI Input/Output

3. The result is displayed after verification. Click [Close] after checking the result.
Displayed example when both data matched:



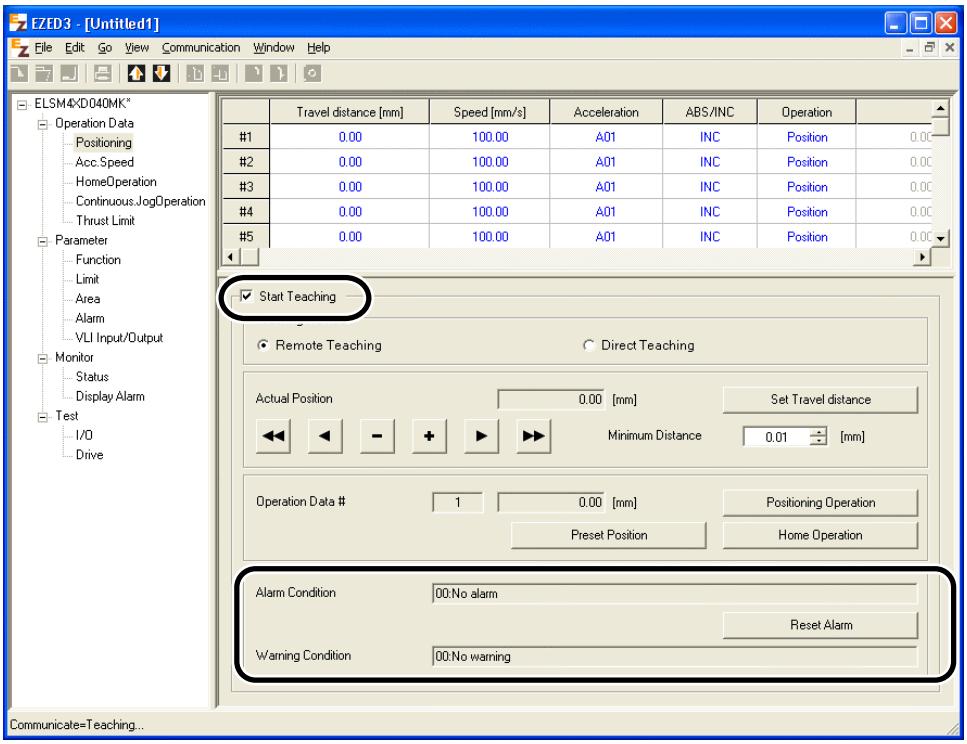
Displayed example when the data did not match: Mismatched data is displayed.



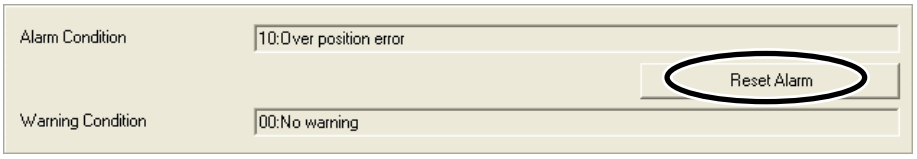
7 Checking the alarm and warning

The alarm/warning condition of the driver can be monitored in the operation data editing window.
The alarm that are currently present can also be reset.

1. Select “Start Teaching” in the operation data editing window.
   The alarm/warning condition of the driver can be checked.



2. To reset the alarm, click [Reset Alarm].
   The alarms are reset.



Some alarms cannot be reset. For details, refer to the INSTRUCTION MANUAL for the driver.

8 Monitor function

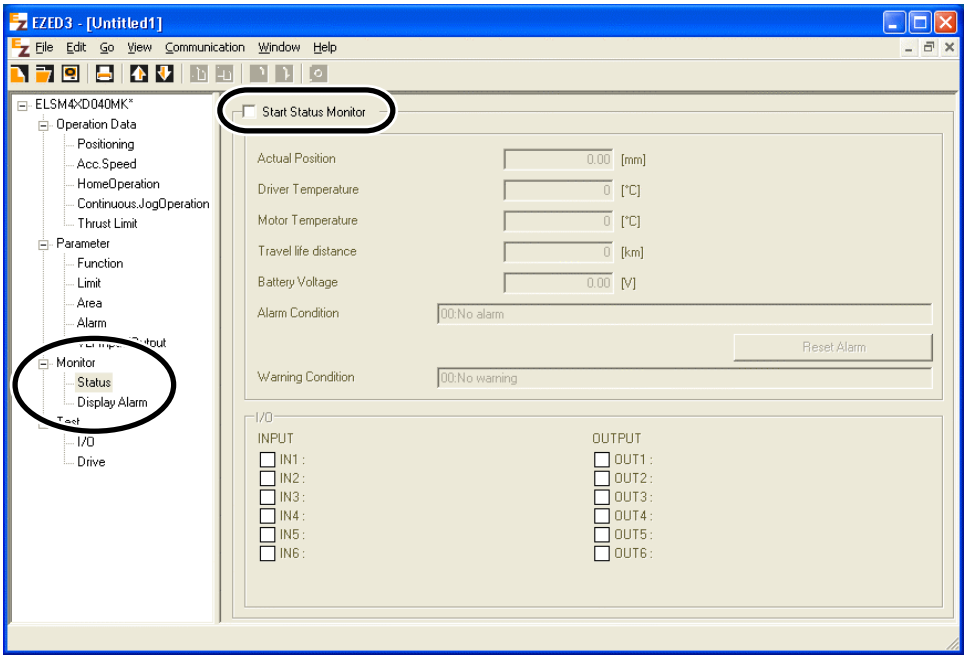
You can monitor the actual position of the motorized actuator, the I/O signal status and alarm records of the driver.

8.1 Status monitor

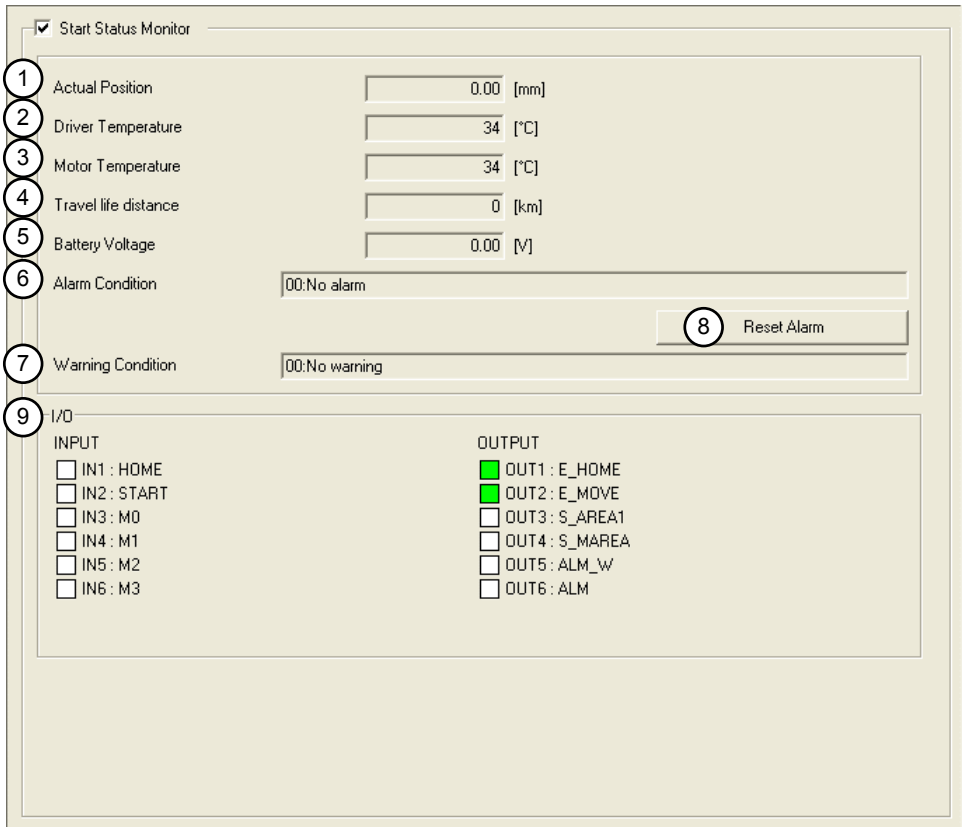
You can monitor the actual position of the motorized actuator and the I/O signal status of the driver.

Note The green color represents ON for the signal status and the white color represents OFF (when the logic setting is "normally open"). When the logic setting is set to "normally closed," the signal status will be opposite.

1. In the window selection area, click [Status] under [Monitor].
   The status monitor window appears.
2. Check “Start Status Monitor."



Status monitor starts.



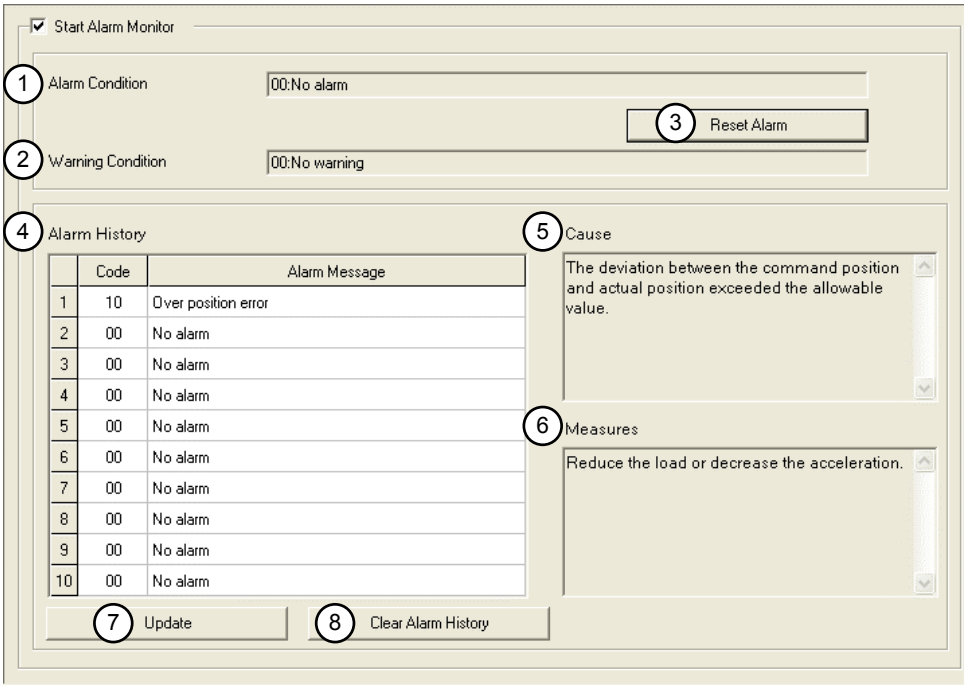
No.	Item	Description
1	Actual Position	Actual position of the motorized actuator moving part.
2	Driver Temperature	Driver temperature
3	Motor Temperature	Motor temperature
4	Travel life distance	Travel distance to date
5	Battery Voltage	Voltage for the battery used in absolute mode
6	Alarm Condition	The alarm condition is shown.
7	Warning Condition	The warning condition is shown.
8	Reset Alarm	Clicking this button resets the present alarms. (Some alarms cannot be reset.)
9	I/O	Display for ON-OFF status of I/O signals that are applied the logic setting

3. To end status monitor, unselect “Start Status Monitor”.

8.2 Alarm display monitor

Alarm condition and warning condition can be monitored.

1. In the window selection area, click [Display Alarm] under [Monitor].
   The alarm display window appears.
2. Check “Start Alarm Monitor.”



No.	Item	Description
1	Alarm Condition	The alarm condition is shown.
2	Warning Condition	The warning condition is shown.
3	Reset Alarm (button)	Clicking this button resets the present alarms. (Some alarms cannot be reset.)
4	Alarm History	Up to 10 alarm records (from the latest) are displayed.
5	Cause	Estimated causes of the alarm are displayed.
6	Measures	Measures of the alarm are displayed.
7	Update (button)	Alarm records are updated.
8	Clear Alarm History (button)	Alarm records are cleared.

9 Test function

You can perform I/O signal test and test operation in the data edit window.

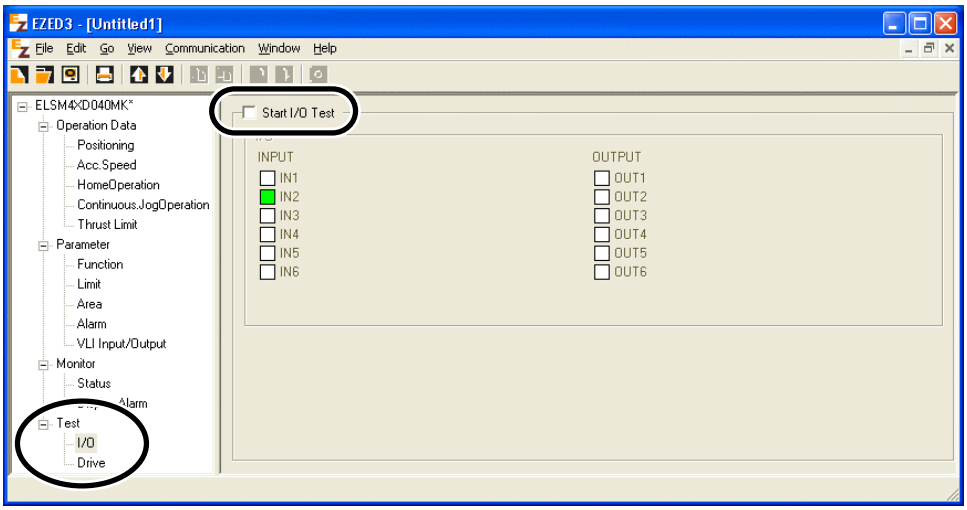
9.1 I/O test

You can monitor input signals and cause output signals to forcibly output. This function is convenient if you want to check the wiring condition.

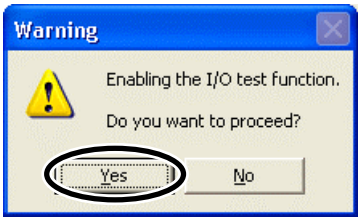
Note

- All functions and operations associated with I/O signals are disabled during I/O test.
- In the case of INPUT (input signal), the green color signal represents the internal photocoupler of the driver is "current-carrying" state and the white color signal represents it is not "current-carrying" state.
- In the case of OUTPUT (output signal), the green color signal represents the output signal is ON and the white color signal represents the output signal is OFF.

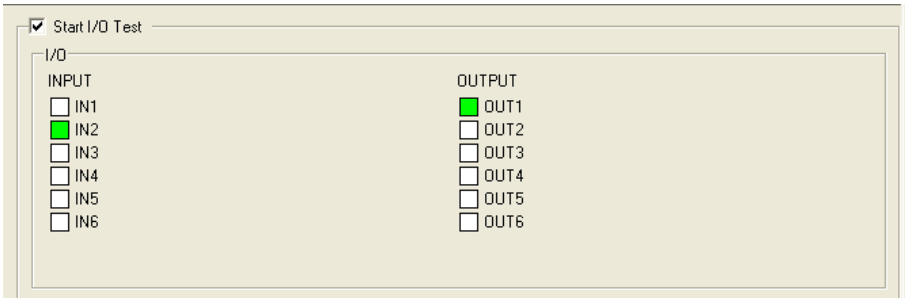
1. In the window selection area, click [I/O] under [Test].
   The I/O test window appears.
2. Check “Start I/O Test.”



3. Click [Yes].
You can monitor the ON/OFF state of the input signals under “INPUT.”
You can switch the ON/OFF state of the output signals on every click at ☐.



Signal color	Input signal	Output signal
Green	The photocoupler in the driver is "current-carrying" state.	Output signal is ON.
White	The photocoupler in the driver is not "current-carrying" state.	Output signal is OFF.



4. To end the I/O test, clear the check in the box of “Start I/O Test.”
The signals under “OUTPUT” (output signals) return to the state before the I/O test.

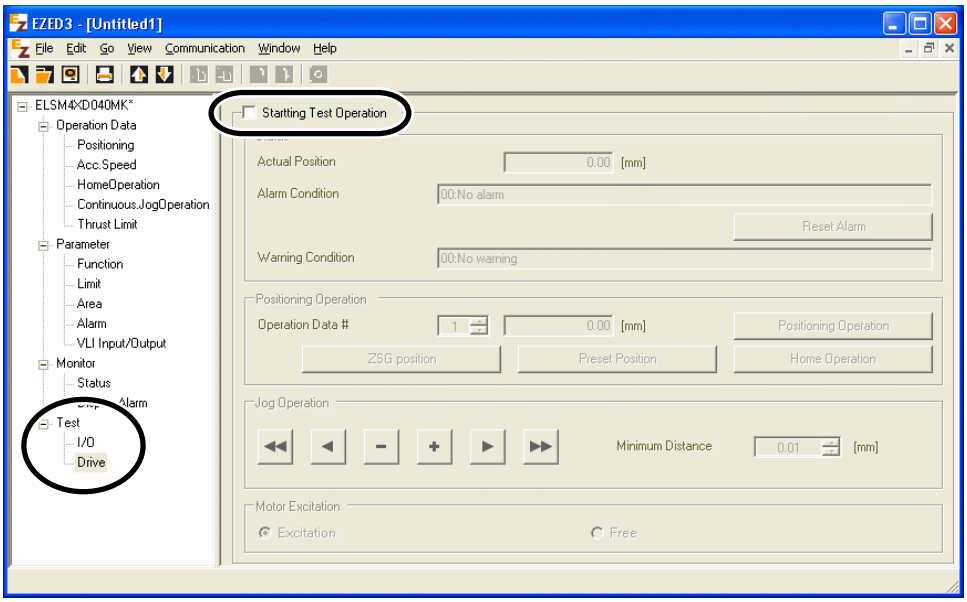
9.2 Test operation

The **EZED3** can be used to check the operation of the motorized actuator before connecting the motorized actuator to a programmable controller.

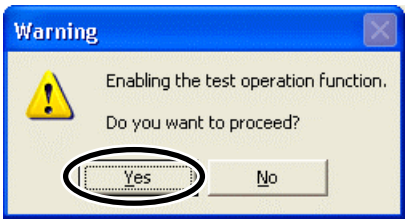
Note

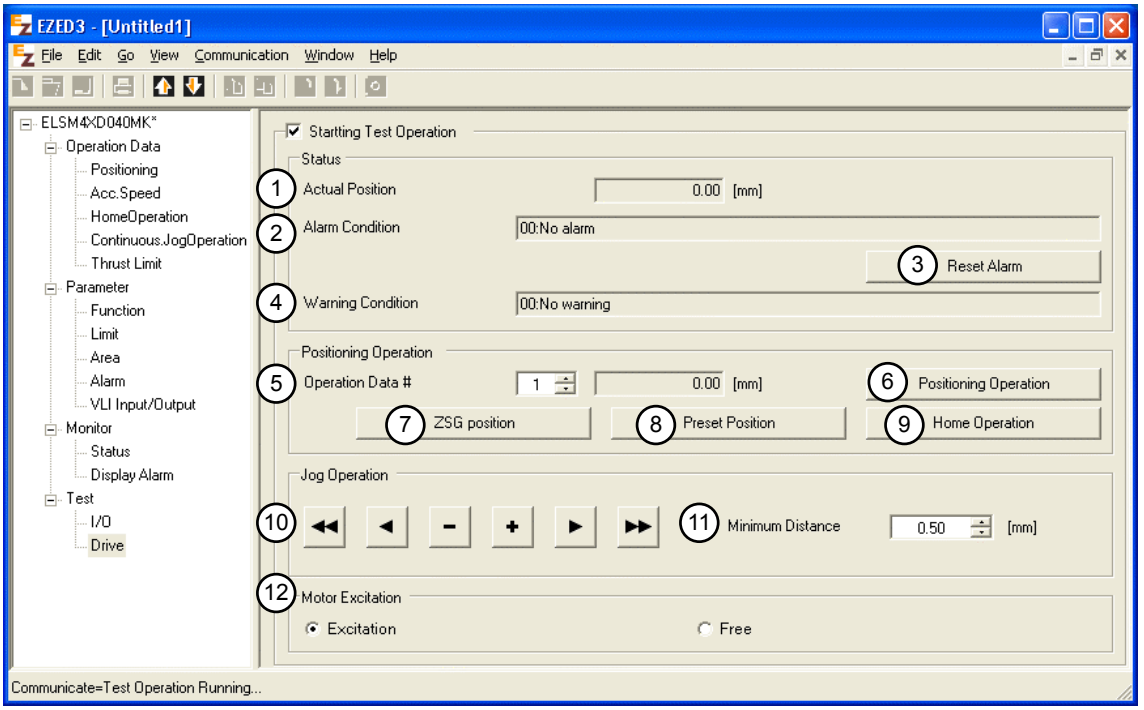
- Before performing test operation, be sure that the data displayed in the window matches the data stored in the driver. Test operation is performed using data stored in the driver. If the data in the driver is different from the data shown in the window, the motorized actuator may cause unexpected motion.
- Before performing test operation, be sure to close all other programs. Under running other programs, the motorized actuator may not operate correctly.

1. Download the editing data to the driver or upload the data from the driver so that the data displayed in the window matches the data stored in the driver.
   For the download procedure, refer to p.42.
   For the upload procedure, refer to p.43.
2. In the window selection area, click [Drive] under [Test].
   The test operation window appears.
3. Check “Starting Test Operation.”



4. Click [Yes].
You can now perform test operation.





No.	Item	Description
1	Actual Position	Current position of the motorized actuator moving part.
2	Alarm Condition	The alarm condition is shown.
3	Reset Alarm (button)	Clicking this button resets the present alarms. (Some alarms cannot be reset.)
4	Warning Condition	The warning condition is shown.
5	Operation Data #	The operation data number used for operation.
6	Positioning Operation (button)	Clicking this button performs positioning operation with the selected data.
7	ZSG position (button)	Clicking this button sets the current position as the center position of Z-phase.
8	Preset Position (button)	Clicking this button sets the current position to the origin.
9	Home Operation (button)	Clicking this button performs return-to-home operation.
10	Jog Operation (buttons)	These buttons are used to move the motorized actuator moving part.
11	Minimum Distance	Set the resolution of the motorized actuator travels in remote teaching. (This setting is effective only during test operation.)
12	Motor Excitation	Switching between the "motor excitation" and "motor free." Excitation: Selecting "Excitation" turns the motor current ON. Free: Selecting "Free" turns the motor current OFF and the moving part can be moved manually.

5. To end the test operation, clear the check in the box of “Starting Test Operation.”

10 Other functions

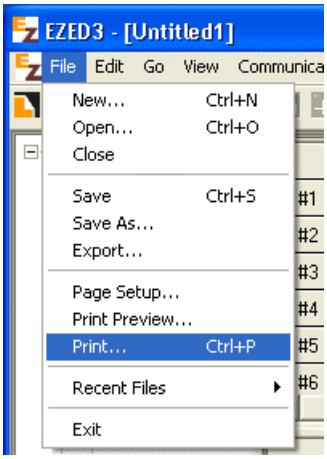
You can print the **EZED3** data or check the version of the **EZED3**.
The screens provided in the explanation below are those displayed in an **ELS** Series position driver type.

Note Administrator privilege is required to use the **EZED3**.

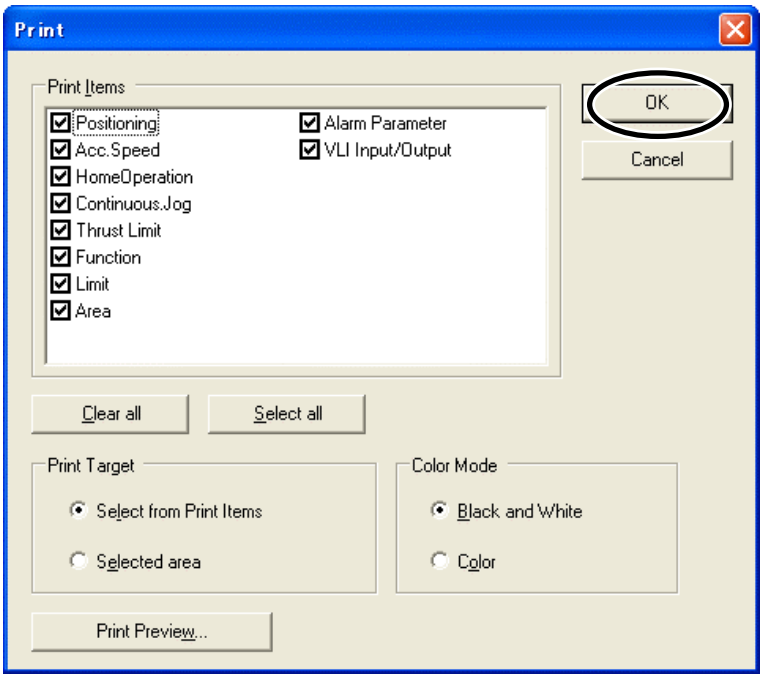
10.1 Printing data

You can print operation data and parameter.

1. Click [Print] from the [File] menu.

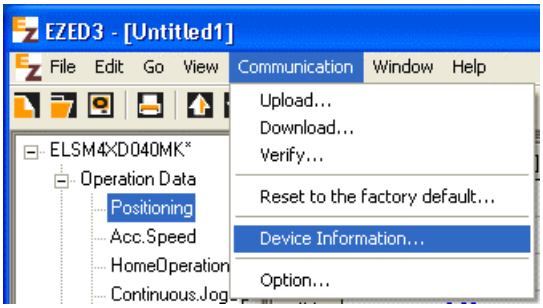


2. Set the items you want to print, print object, and color, and then click [OK].

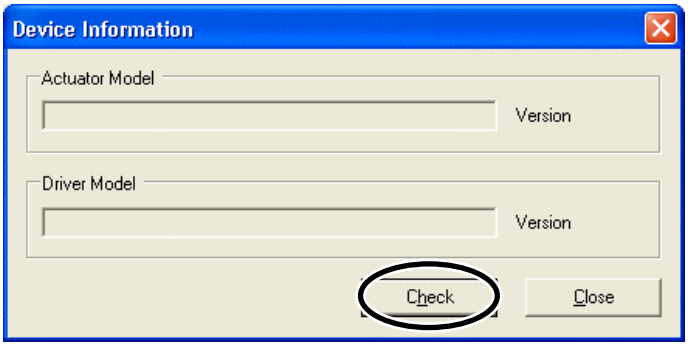


10.2 Checking product information

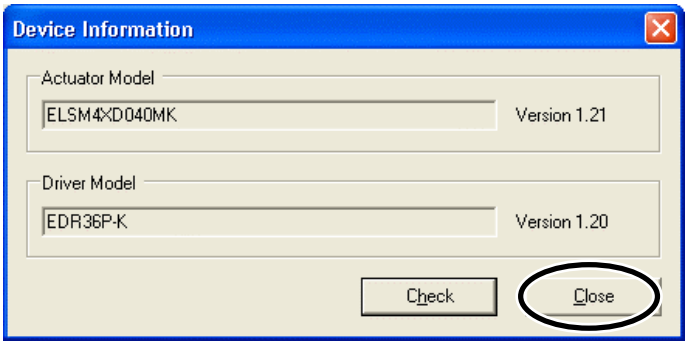
1. Click [Device Information] from the [Communication] menu.



2. Click [Check].
The connected product information is acquired.



3. The result is displayed after acquiring the information. Click [Close] after checking information.



When the actuator model name or driver model name of the applicable product is not displayed

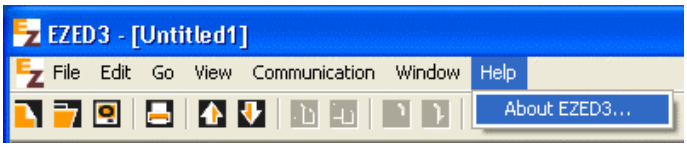
Please verify the following items:

- Is the applicable product power on?
- Is the PC interface cable completely inserted?
- Is the applicable product a type that is compatible with the **EZED3**?

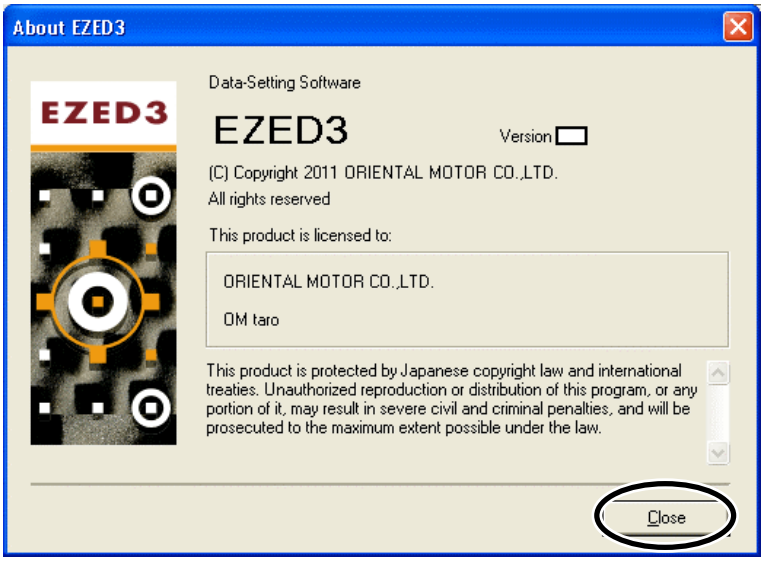
10.3 Checking version information

You can check the software version of the **EZED3** you are using.

1. Click [About EZED3] from the [Help] menu.



2. The software version is displayed. Click [Close] after checking the software version.


About EZED3
EZED3
Data-Setting Software
EZED3
Version
(C) Copyright 2011 ORIENTAL MOTOR CO.,LTD.
All rights reserved
This product is licensed to:
ORIENTAL MOTOR CO.,LTD.
OM taro
This product is protected by Japanese copyright law and international treaties. Unauthorized reproduction or distribution of this program, or any portion of it, may result in severe civil and criminal penalties, and will be prosecuted to the maximum extent possible under the law.
Close

11 Error message list

If the **EZED3** has encountered a problem while running, a corresponding error message is shown in the window.

Note Administrator privilege is required to use the **EZED3**.

11.1 Error message at data editing screen

■ Creating new data

Error message		Cause	Action
Failed to create a new file.	Could not find Actuator Model name. Check the following items: · Name is not selected correctly. · The version for **EZED3** is old.	When creating a new data, although the actuator model name is input directly, the model name could not find.	Input the model name correctly.
		The model name is not supported by the version of the **EZED3** in use.	Update the version of the **EZED3** to the latest one.
	Application error has occurred. Reinstall the application.	An error occurred while executing an application.	Execute the operation again. If the same error occurs again, reinstall the **EZED3**.

■ Searching the model

Error message		Cause	Action
Failed to find the model.	Unsupported products.	Unsupported driver was connected.	Connect the product supported by the **EZED3**.
	Motor cable is not connected.	The motor is not connected to the driver.	Connect the motor.
	The error occurred on communication device.	The error occurred on communication device.	Check if the communication program (dll) for Windows isn't damaged.
	A communication timeout error occurred. Check the possible causes listed below: · The driver power is not turned on. · The communication cable is not connected. · The communication port setting does not match the port to which the communication cable is connected.	A certain time was not communicated with the driver.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.
	Fail to open the communication port. Check the possible causes listed below: · Wrong communication setting is used. · It is used by other applications.	Although the communication port was tried to open, it could not be opened because it was in use or its setting was not correct.	• Check the setting of the communication port. • Check if the communication port is used by other applications.

Error message		Cause	Action
Failed to find the model.	The communication data is invalid.	The error occurred on communication data.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.

■ Opening the existing data file

Error message		Cause	Action
The file name is invalid.	The path is too long. The length of the path should be less than 260 characters.	The length of the file name including the path exceeds 260 characters.	The length of the file name including the path should be less than 260 characters.
Can not open the file.	The file type is not supported.	The file selected by [Open] dialog was an unsupported file format.	Select a file for ez3 format. If a file error occurs using the file for ez3 format, the file is corrupted.
	The file can not be opened. The file is being used.	Although the file was tried to open, it was in use by another application.	Check if the file is used in another application.
	The file is corrupted.	The file selected by [Open] dialog was corrupted.	The specified data file cannot be used. Create another data file.
	This file is corrupted, or not supported.	The file selected by [Open] dialog was an unsupported model or corrupted.	Check if it is the file of the model that is supported by the version of the **EZED3**. It cannot be used if the file is corrupted. Create a data file again.
	The file can not be read.	A disk error was occurred in the reading drive.	Execute the operation again. If the same error occurs again, there is a possibility that the PC has a problem.
	Application error has occurred. Reinstall the application.	An error occurred while executing an application.	Execute the operation again. If the same error occurs again, reinstall the **EZED3**.

■ Editing the data

Error message		Cause	Action
Failed to paste.	The selected range to be pasted is invalid.	It could not be pasted because the copy area and paste area were not the same size and shape.	Check the shape of the area to be copied. Select an appropriate range and paste again.
	Invalid data.	There was an invalid value in the paste data.	• Paste the data that can be set. • Select an appropriate cell and paste.
	The data exceeds the setting range.	There was a value exceeding the setting range in the paste data.	Paste data within the setting range.
	The paste data is invalid.	There was an invalid value in the data that was tried to paste when editing with VLI function.	Paste the correct data.

■ Teaching

Error message		Cause	Action
Can not enable the gain tuning.	Series, or did not match the type of driver.	Although the teaching function was tried to be enabled, the model selected in the **EZED3** did not match the driver model.	Check the driver model and execute again after selecting the correct model in the **EZED3**.
	Check the following items: · The motor is driving.	The teaching function was tried to be enabled while operating the motor.	Execute the operation again after stopping the motor.
	The upload was cancelled.	Although the teaching function was tried to be enabled, a cancellation was executed while uploading the synchronous processing between the driver and **EZED3**.	Make the teaching function enable again.
	The download was cancelled.	Although the teaching function was tried to be enabled, a cancellation was executed while downloading the synchronous processing between the driver and **EZED3**.	
	Can not download during the operation. Download after the operation is stopped.	The download of the synchronous processing between the driver and **EZED3** was tried to execute while operating the motor.	Execute the operation again after stopping the motor.
	The error occurred on communication device.	The error occurred on communication device.	Check if the communication program (dll) for Windows isn't damaged.
	A communication timeout error occurred. Check the possible causes listed below: · The driver power is not turned on. · The communication cable is not connected. · The communication port setting does not match the port to which the communication cable is connected.	A certain time was not communicated with the driver.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.
	Fail to open the communication port. Check the possible causes listed below: · Wrong communication setting is used. · It is used by other applications.	Although the communication port was tried to open, it could not be opened because it was in use or its setting was not correct.	• Check the setting of the communication port. • Check if the communication port is used by other applications.
	The communication data is invalid.	The error occurred on communication data.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.

Error message		Cause	Action
Can not enable the gain tuning.	Application error has occurred. Reinstall the application.	An error occurred while executing an application.	Execute the operation again. If the same error occurs again, reinstall the **EZED3**.
The registry data is abnormal.	Application error has occurred. Reinstall the application.		
An error occurred while executing.	–	Timeout of processing waiting time has occurred.	Close the software other than the **EZED3**, and then execute again.
The teaching function was disabled.	The error occurred on communication device.	The error occurred on communication device.	Check if the communication program (dll) for Windows isn't damaged.
	A communication timeout error occurred. Check the possible causes listed below: · The driver power is not turned on. · The communication cable is not connected. · The communication port setting does not match the port to which the communication cable is connected.	A certain time was not communicated with the driver.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.
	Fail to open the communication port. Check the possible causes listed below: · Wrong communication setting is used. · It is used by other applications.	Although the communication port was tried to open, it could not be opened because it was in use or its setting was not correct.	• Check the setting of the communication port. • Check if the communication port is used by other applications.
	The communication data is invalid.	The error occurred on communication data.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.
An error occurred while disabling the teaching.	The error occurred on communication device.	The error occurred on communication device.	Check if the communication program (dll) for Windows isn't damaged.
	A communication timeout error occurred. Check the possible causes listed below: · The driver power is not turned on. · The communication cable is not connected. · The communication port setting does not match the port to which the communication cable is connected.	A certain time was not communicated with the driver.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.

Error message		Cause	Action
An error occurred while disabling the teaching.	Fail to open the communication port. Check the possible causes listed below: · Wrong communication setting is used. · It is used by other applications.	Although the communication port was tried to open, it could not be opened because it was in use or its setting was not correct.	• Check the setting of the communication port. • Check if the communication port is used by other applications.
	The communication data is invalid.	The error occurred on communication data.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.
Failed to execute +direction JOG operation.	The error occurred on communication device.	The error occurred on communication device.	Check if the communication program (dll) for Windows isn't damaged.
	A communication timeout error occurred. Check the possible causes listed below: · The driver power is not turned on. · The communication cable is not connected. · The communication port setting does not match the port to which the communication cable is connected.	A certain time was not communicated with the driver.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.
	Fail to open the communication port. Check the possible causes listed below: · Wrong communication setting is used. · It is used by other applications.	Although the communication port was tried to open, it could not be opened because it was in use or its setting was not correct.	• Check the setting of the communication port. • Check if the communication port is used by other applications.
	The communication data is invalid.	The error occurred on communication data.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.

Error message		Cause	Action
Failed to execute +direction JOG operation.	Check the following items: · Motor excitation is off. · STOP is set to on. · Alarm is on. · Nonvolatile memory processing in progress.	Any of the following conditions will be a cause. · FREE signal or OF-CRN signal is in ON state · While executing the direct teaching or while the motor is not excited in the test operation · STOP signal is in ON state · An alarm is present · Non-volatile memory processing is in progress	• Turn the FREE signal and OF-CRN signal OFF and execute the operation. • When executing the teaching operation, set the teaching method to "remote teaching" and then execute again. When executing the test operation, set the motor to "excitation" and then execute again. • Turn the STOP signal OFF and execute the operation. • Remove the cause of the alarm when the alarm is present, and then execute the operation. • When the non-volatile memory processing is in progress, execute the operation again at some interval.
Failed to execute −direction JOG operation.	The error occurred on communication device.	The error occurred on communication device.	Check if the communication program (dll) for Windows isn't damaged.
	A communication timeout error occurred. Check the possible causes listed below: · The driver power is not turned on. · The communication cable is not connected. · The communication port setting does not match the port to which the communication cable is connected.	The error occurred on communication device.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.
	Fail to open the communication port. Check the possible causes listed below: · Wrong communication setting is used. · It is used by other applications.	A certain time was not communicated with the driver.	• Check the setting of the communication port. • Check if the communication port is used by other applications.
	The communication data is invalid.	The error occurred on communication data.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.

Error message		Cause	Action
Failed to execute −direction JOG operation.	Check the following items: · Motor excitation is off. · STOP is set to on. · Alarm is on. · Nonvolatile memory processing in progress.	Any of the following conditions will be a cause. · FREE signal or OF-CRN signal is in ON state · While executing the direct teaching or while the motor is not excited in the test operation · STOP signal is in ON state · An alarm is present · Non-volatile memory processing is in progress	• Turn the FREE signal and OF-CRN signal OFF and execute the operation. • When executing the teaching operation, set the teaching method to "remote teaching" and then execute again. When executing the test operation, set the motor to "excitation" and then execute again. • Turn the STOP signal OFF and execute the operation. • Remove the cause of the alarm when the alarm is present, and then execute the operation. • When the non-volatile memory processing is in progress, execute the operation again at some interval.
Failed to stop Jog operation.	The error occurred on communication device.	The error occurred on communication device.	Check if the communication program (dll) for Windows isn't damaged.
	A communication timeout error occurred. Check the possible causes listed below: · The driver power is not turned on. · The communication cable is not connected. · The communication port setting does not match the port to which the communication cable is connected.	A certain time was not communicated with the driver.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.
	Fail to open the communication port. Check the possible causes listed below: · Wrong communication setting is used. · It is used by other applications.	Although the communication port was tried to open, it could not be opened because it was in use or its setting was not correct.	• Check the setting of the communication port. • Check if the communication port is used by other applications.
	The communication data is invalid.	The error occurred on communication data.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.
Failure of home operation.	The error occurred on communication device.	The error occurred on communication device.	Check if the communication program (dll) for Windows isn't damaged.

Error message		Cause	Action
Failure of home operation.	A communication timeout error occurred. Check the possible causes listed below: · The driver power is not turned on. · The communication cable is not connected. · The communication port setting does not match the port to which the communication cable is connected.	A certain time was not communicated with the driver.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.
	Fail to open the communication port. Check the possible causes listed below: · Wrong communication setting is used. · It is used by other applications.	Although the communication port was tried to open, it could not be opened because it was in use or its setting was not correct.	• Check the setting of the communication port. • Check if the communication port is used by other applications.
	The communication data is invalid.	The error occurred on communication data.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.
	Check the following items: · Motor excitation is off. · STOP is set to on. · Alarm is on. · Nonvolatile memory processing in progress.	Any of the following conditions will be a cause. · FREE signal or OF-CRN signal is in ON state · While executing the direct teaching or while the motor is not excited in the test operation · STOP signal is in ON state · An alarm is present · Non-volatile memory processing is in progress	• Turn the FREE signal and OF-CRN signal OFF and execute the operation. • When executing the teaching operation, set the teaching method to "remote teaching" and then execute again. When executing the test operation, set the motor to "excitation" and then execute again. • Turn the STOP signal OFF and execute the operation. • Remove the cause of the alarm when the alarm is present, and then execute the operation. • When the non-volatile memory processing is in progress, execute the operation again at some interval.
	Check the following items. · Other applications are executing. · There are a lot of residing applications. · The processing speed of PC is insufficient.	It was executed when the PC was in high load condition.	• End other applications. • End the residing applications. • Change to another PC.
	Failed to stop operation.	Return-to-home operation was tried to stop but the communication error was occurred.	Check the PC communication condition.

Error message		Cause	Action
Failure of positioning.	The error occurred on communication device.	The error occurred on communication device.	Check if the communication program (dll) for Windows isn't damaged.
	A communication timeout error occurred. Check the possible causes listed below: · The driver power is not turned on. · The communication cable is not connected. · The communication port setting does not match the port to which the communication cable is connected.	A certain time was not communicated with the driver.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.
	Fail to open the communication port. Check the possible causes listed below: · Wrong communication setting is used. · It is used by other applications.	Although the communication port was tried to open, it could not be opened because it was in use or its setting was not correct.	• Check the setting of the communication port. • Check if the communication port is used by other applications.
	The communication data is invalid.	The error occurred on communication data.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.
	Check the following items: · Motor excitation is off. · Drive data is over range. · STOP is set to on. · Alarm is on. · Nonvolatile memory processing in progress.	Any of the following conditions will be a cause. · Operation data is out of range · FREE signal or OF-CRN signal is in ON state · While executing the direct teaching or while the motor is not excited in the test operation · STOP signal is in ON state · An alarm is present · Non-volatile memory processing is in progress	• Execute again after correcting the operation data in a range. • Turn the FREE signal and OF-CRN signal OFF and execute the operation. • When executing the teaching operation, set the teaching method to "remote teaching" and then execute again. When executing the test operation, set the motor to "excitation" and then execute again. • Turn the STOP signal OFF and execute the operation. • Remove the cause of the alarm when the alarm is present, and then execute the operation. • When the non-volatile memory processing is in progress, execute the operation again at some interval.

Error message		Cause	Action
Failure of positioning.	Check the following items. · Other applications are executing. · There are a lot of residing applications. · The processing speed of PC is insufficient.	It was executed when the PC was in high load condition.	• End other applications. • End the residing applications. • Change to another PC.
	Failed to stop operation.	Although positioning operation was tried to stop, the communication error was occurred.	Check the PC communication condition.
Failure of position preset.	The error occurred on communication device.	The error occurred on communication device.	Check if the communication program (dll) for Windows isn't damaged.
	A communication timeout error occurred. Check the possible causes listed below: · The driver power is not turned on. · The communication cable is not connected. · The communication port setting does not match the port to which the communication cable is connected.	A certain time was not communicated with the driver.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.
	Fail to open the communication port. Check the possible causes listed below: · Wrong communication setting is used. · It is used by other applications.	Although the communication port was tried to open, it could not be opened because it was in use or its setting was not correct.	• Check the setting of the communication port. • Check if the communication port is used by other applications.
	The communication data is invalid.	The error occurred on communication data.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.
	Check the following items: · The motor is driving. · Alarm is on.	Position preset was tried to execute while the motor had been operated or the alarm had been generated.	• When the motor is driving, execute after stopping the motor. • Remove the cause of the alarm when the alarm is present, and then execute the operation.

■ Data file saving

Error message		Cause	Action
The file can not be saved.	The file type is not supported.	The file selected in the [Save] dialog was unsupported file format.	Select a file for ez3 format. If a file error occurs using the file for ez3 format, the file is corrupted.
	Insert a disk.	A disk is not inserted in the removable drive selected to the destination to save.	Execute after inserting the disk.
	The file can not be opened. The file is being used.	Although the file was tried to open, it was in use by another application.	Check if the file is used in another application.
	The data can not be written on the file.	A disk error was occurred in the saving drive.	Use a different drive or format the disk.
	Application error has occurred. Reinstall the application.	An error occurred while executing an application.	Execute the operation again. If the same error occurs again, reinstall the **EZED3**.

■ Saving the data in CSV format

Error message		Cause	Action
Failed to export the file.	The file type is not supported.	The file selected in the [Save] dialog was unsupported file format.	Select a file for CSV format. If a file error occurs using the file for CSV format, the file is corrupted.
	Insert a disk.	A disk is not inserted in the removable drive selected to the destination to save.	Execute after inserting the disk.
	The file can not be opened. The file is being used.	Although the file was tried to open, it was in use by another application.	Check if the file is used in another application.
	The data can not be written on the file.	A disk error was occurred in the saving drive.	Use a different drive or format the disk.
	Application error has occurred. Reinstall the application.	An error occurred while executing an application.	Execute the operation again. If the same error occurs again, reinstall the **EZED3**.

■ Initializing the driver data

Error message		Cause	Action
The initialization failed.	Unsupported products.	Unsupported driver was connected.	Connect the product supported by the **EZED3**.
	Series Name do not match.	Although [Reset to the factory default] was tried to execute, the series name selected in the **EZED3** did not match that of the connected product.	Check the connected product and execute again after selecting the correct model in the **EZED3**.
	Actuator Model do not match.	Although [Reset to the factory default] was tried to execute, the actuator model name selected in the **EZED3** did not match that of the connected product.	

Error message		Cause	Action
The initialization failed.	Driver Model do not match.	Although [Reset to the factory default] was tried to execute, the driver model name selected in the **EZED3** did not match that of the connected product.	Check the connected product and execute again after selecting the correct model in the **EZED3**.
	Executing the status monitor.	The initialization was tried to execute while executing the status monitor.	Execute after stopping the function.
The initialization failed.	Executing the alarm monitor.	The window was tried to change while executing the alarm monitor.	Execute after stopping the function.
	Executing the I/O test.	The initialization was tried to execute while executing the I/O test.	
	Executing the test operation.	The initialization was tried to execute while executing the test operation.	
	Executing the teaching.	The initialization was tried to execute while executing the teaching operation.	
	Motor cable is not connected.	The motor is not connected to the driver.	Connect the motor.
	Writing to the nonvolatile memory. Try again later.	It was executing to write to the non-volatile memory.	Execute the operation again at some interval.
	Check the following items: · The motor is driving.	[Reset to the factory default] was tried to executed while operating the motor.	Execute after stopping the motor.
	The error occurred on communication device.	The error occurred on communication device.	Check if the communication program (dll) for Windows isn't damaged.
	A communication timeout error occurred. Check the possible causes listed below: · The driver power is not turned on. · The communication cable is not connected. · The communication port setting does not match the port to which the communication cable is connected.	A certain time was not communicated with the driver.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.
	Fail to open the communication port. Check the possible causes listed below: · Wrong communication setting is used. · It is used by other applications.	Although the communication port was tried to open, it could not be opened because it was in use or its setting was not correct.	• Check the setting of the communication port. • Check if the communication port is used by other applications.
	The communication data is invalid.	The error occurred on communication data.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.

Error message		Cause	Action
The initialization failed.	Application error has occurred. Reinstall the application.	An error occurred while executing an application.	Execute the operation again. If the same error occurs again, reinstall the **EZED3**.

■ Screen operation

Error message		Cause	Action
The screen can not be switched.	Executing the status monitor.	The window was tried to change while executing the status monitor.	Execute after stopping the function.
	Executing the alarm monitor.	The window was tried to change while executing the alarm monitor.	
	Executing the I/O test.	The window was tried to change while executing the I/O test.	
	Executing the test operation.	The window was tried to change while executing the test operation.	
	Executing the teaching.	The window was tried to change while executing the teaching operation.	

11.2 Error messages related to communication

■ Upload

Error message		Cause	Action
The upload failed.	The product is not supported. The upload is cancelled.	Although the upload was executed with no child window, the series selection was wrong.	Check the series and execute again after selecting the correct model in the **EZED3**.
		The unsupported product by the **EZED3** in use was connected.	Check the version of the **EZED3** and supported model, and then connect the supported product.
	Executing the status monitor.	The upload was tried to execute while executing the status monitor.	Execute after stopping the function.
	Executing the alarm monitor.	The upload was tried to execute while executing the alarm monitor.	
	Executing the I/O test.	The upload was tried to execute while executing the I/O test.	
	Executing the test operation.	The upload was tried to execute while executing the test operation.	
	Executing the teaching.	The upload was tried to execute while executing the teaching operation.	
	Motor cable is not connected.	The motor is not connected to the driver.	Connect the motor.

Error message		Cause	Action
The upload failed.	The data exceeds the setting range.	• A value being out of the setting range was found while applying the uploaded data. • The data in the driver was out of the actuator setting range such as wrong combination of the actuator and driver.	Execute again after executing [Reset to the factory default].
	The error occurred on communication device.	The error occurred on communication device.	Check if the communication program (dll) for Windows isn't damaged.
	A communication timeout error occurred. Check the possible causes listed below: · The driver power is not turned on. · The communication cable is not connected. · The communication port setting does not match the port to which the communication cable is connected.	A certain time was not communicated with the driver.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.
	Fail to open the communication port. Check the possible causes listed below: · Wrong communication setting is used. · It is used by other applications.	Although the communication port was tried to open, it could not be opened because it was in use or its setting was not correct.	• Check the setting of the communication port. • Check if the communication port is used by other applications.
	The communication data is invalid.	The error occurred on communication data.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.
	Application error has occurred. Reinstall the application.	An error occurred while executing an application.	Execute the operation again. If the same error occurs again, reinstall the **EZED3**.

■ Download

Error message		Cause	Action
The download failed.	Unsupported products.	Unsupported driver was connected.	Connect the product supported by the **EZED3**.
	Series Name do not match.	Although the download was tried to execute, the series name selected in the **EZED3** did not match that of the connected product.	Check the connected product and execute again after selecting the correct model in the **EZED3**.
	Actuator Model do not match.	Although the download was tried to execute, the actuator model name selected in the **EZED3** did not match that of the connected product.	

Error message		Cause	Action
The download failed.	Driver Model do not match.	Although the download was tried to execute, the driver model name selected in the **EZED3** did not match that of the connected product.	Check the connected product and execute again after selecting the correct model in the **EZED3**.
	Edited data can not be found.	Although the differential download was tried to execute, there was no changed data.	The editing data matches the driver data.
	Downloading of the modified data can not be executed because the data is not synchronized with the driver.	The data of the **EZED3** was not synchronized with the driver data.	Select “All” for the download range and then execute the download.
	The differences were found from the verification result. Do you want to display the result?	There was a data discrepancy when verifying after executing the download.	If the same error occurs again, there is a possibility that the non-volatile memory on the driver is damaged.
	Writing to the nonvolatile memory. Try again later.	The download was executed while writing to the non-volatile memory.	Execute the operation again at some interval.
	Abnormality of the nonvolatile memory was found. Please initialize the driver.	An error was occurred in the non-volatile memory.	Execute downloading again after initializing the driver. If the same error occurs again, there is a possibility that the non-volatile memory on the driver is damaged.
	Executing the status monitor.	The download was tried to execute while executing the status monitor.	Execute after stopping the function.
	Executing the alarm monitor.	The download was tried to execute while executing the alarm monitor.	
	Executing the I/O test.	The download was tried to execute while executing the I/O test.	
	Executing the test operation.	The download was tried to execute while executing the test operation.	
	Executing the teaching.	The download was tried to execute while executing the teaching operation.	
	Can not download during the operation. Download after the operation is stopped.	The download was tried to execute while operating the motor.	Execute the operation again after stopping the motor.
	Motor cable is not connected.	The motor is not connected to the driver.	Connect the motor.
	The error occurred on communication device.	The error occurred on communication device.	Check if the communication program (dll) for Windows isn’t damaged.

Error message		Cause	Action
The download failed.	A communication timeout error occurred. Check the possible causes listed below: · The driver power is not turned on. · The communication cable is not connected. · The communication port setting does not match the port to which the communication cable is connected.	A certain time was not communicated with the driver.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.
	Fail to open the communication port. Check the possible causes listed below: · Wrong communication setting is used. · It is used by other applications.	Although the communication port was tried to open, it could not be opened because it was in use or its setting was not correct.	• Check the setting of the communication port. • Check if the communication port is used by other applications.
	The communication data is invalid.	The error occurred on communication data.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.
	Application error has occurred. Reinstall the application.	An error occurred while executing an application.	Execute the operation again. If the same error occurs again, reinstall the **EZED3**.
An error occurred during the cancellation of the download.	Restore the driver.	The communication error occurred while canceling the download.	Cycle the driver power.

■ Verification

Error message		Cause	Action
The verification failed.	Unsupported products.	Unsupported driver was connected.	Connect the product supported by the **EZED3**.
	Series Name do not match.	Although the verification was tried to execute, the series name selected in the **EZED3** did not match that of the connected product.	Check the connected product and execute again after selecting the correct model in the **EZED3**.
	Actuator Model do not match.	Although the verification was tried to execute, the actuator model name selected in the **EZED3** did not match that of the connected product.	
	Driver Model do not match.	Although the verification was tried to execute, the driver model name selected in the **EZED3** did not match that of the connected product.	
	Executing the status monitor.	The verification was tried to execute while executing the status monitor.	Execute after stopping the function.

Error message		Cause	Action
The verification failed.	Executing the alarm monitor.	The verification was tried to execute while executing the alarm monitor.	Execute after stopping the function.
	Executing the I/O test.	The verification was tried to execute while executing the I/O test.	
	Executing the test operation.	The verification was tried to execute while executing the test operation.	
	Executing the teaching.	The verification was tried to execute while executing the teaching operation.	
	Motor cable is not connected.	The motor is not connected to the driver.	Connect the motor.
	The error occurred on communication device.	The error occurred on communication device.	Check if the communication program (dll) for Windows isn't damaged.
	A communication timeout error occurred. Check the possible causes listed below: · The driver power is not turned on. · The communication cable is not connected. · The communication port setting does not match the port to which the communication cable is connected.	A certain time was not communicated with the driver.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.
	Fail to open the communication port. Check the possible causes listed below: · Wrong communication setting is used. · It is used by other applications.	Although the communication port was tried to open, it could not be opened because it was in use or its setting was not correct.	• Check the setting of the communication port. • Check if the communication port is used by other applications.
	The communication data is invalid.	The error occurred on communication data.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.
	Application error has occurred. Reinstall the application.	An error occurred while executing an application.	Execute the operation again. If the same error occurs again, reinstall the **EZED3**.

11.3 Error messages related to status monitor

■ Status monitor

Error message		Cause	Action
Can not enable the status monitor.	Series, or did not match the type of driver.	Although the status monitor was tried to be enabled, the model selected in the **EZED3** did not match the driver model.	Check the connected product and execute again after selecting the correct model in the **EZED3**.
	The error occurred on communication device.	The error occurred on communication device.	Check if the communication program (dll) for Windows isn't damaged.
	A communication timeout error occurred. Check the possible causes listed below: · The driver power is not turned on. · The communication cable is not connected. · The communication port setting does not match the port to which the communication cable is connected.	A certain time was not communicated with the driver.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.
	Fail to open the communication port. Check the possible causes listed below: · Wrong communication setting is used. · It is used by other applications.	Although the communication port was tried to open, it could not be opened because it was in use or its setting was not correct.	• Check the setting of the communication port. • Check if the communication port is used by other applications.
	The communication data is invalid.	The error occurred on communication data.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.
	Application error has occurred. Reinstall the application.	An error occurred while executing an application.	Execute the operation again. If the same error occurs again, reinstall the **EZED3**.
Status monitor is disabled.	The error occurred on communication device.	The error occurred on communication device.	Check if the communication program (dll) for Windows isn't damaged.
	A communication timeout error occurred. Check the possible causes listed below: · The driver power is not turned on. · The communication cable is not connected. · The communication port setting does not match the port to which the communication cable is connected.	A certain time was not communicated with the driver.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.

Error message		Cause	Action
Status monitor is disabled.	Fail to open the communication port. Check the possible causes listed below: · Wrong communication setting is used. · It is used by other applications.	Although the communication port was tried to open, it could not be opened because it was in use or its setting was not correct.	• Check the setting of the communication port. • Check if the communication port is used by other applications.
	The communication data is invalid.	The error occurred on communication data.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.
An error occurred while disabling the status monitor.	The error occurred on communication device.	The error occurred on communication device.	Check if the communication program (dll) for Windows isn't damaged.
	A communication timeout error occurred. Check the possible causes listed below: · The driver power is not turned on. · The communication cable is not connected. · The communication port setting does not match the port to which the communication cable is connected.	A certain time was not communicated with the driver.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.
	Fail to open the communication port. Check the possible causes listed below: · Wrong communication setting is used. · It is used by other applications.	Although the communication port was tried to open, it could not be opened because it was in use or its setting was not correct.	• Check the setting of the communication port. • Check if the communication port is used by other applications.
	The communication data is invalid.	The error occurred on communication data.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.

■ Alarm

Error message		Cause	Action
Could not enable the alarm monitor.	Series, or did not match the type of driver.	Although the alarm monitor was tried to be enabled, the model selected in the **EZED3** did not match the driver model.	Check the connected product and execute again after selecting the correct model in the **EZED3**.
	The error occurred on communication device.	The error occurred on communication device.	Check if the communication program (dll) for Windows isn't damaged.
	A communication timeout error occurred. Check the possible causes listed below: · The driver power is not turned on. · The communication cable is not connected. · The communication port setting does not match the port to which the communication cable is connected.	A certain time was not communicated with the driver.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.
	Fail to open the communication port. Check the possible causes listed below: · Wrong communication setting is used. · It is used by other applications.	Although the communication port was tried to open, it could not be opened because it was in use or its setting was not correct.	• Check the setting of the communication port. • Check if the communication port is used by other applications.
	The communication data is invalid.	The error occurred on communication data.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.
	Application error has occurred. Reinstall the application.	An error occurred while executing an application.	Execute the operation again. If the same error occurs again, reinstall the **EZED3**.
The alarm history can not be updated.	The error occurred on communication device.	The error occurred on communication device.	Check if the communication program (dll) for Windows isn't damaged.
	A communication timeout error occurred. Check the possible causes listed below: · The driver power is not turned on. · The communication cable is not connected. · The communication port setting does not match the port to which the communication cable is connected.	A certain time was not communicated with the driver.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.

Error message		Cause	Action
The alarm history can not be updated.	Fail to open the communication port. Check the possible causes listed below: · Wrong communication setting is used. · It is used by other applications.	Although the communication port was tried to open, it could not be opened because it was in use or its setting was not correct.	• Check the setting of the communication port. • Check if the communication port is used by other applications.
	The communication data is invalid.	The error occurred on communication data.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.
The alarm history can not be cleared.	The error occurred on communication device.	The error occurred on communication device.	Check if the communication program (dll) for Windows isn't damaged.
	A communication timeout error occurred. Check the possible causes listed below: · The driver power is not turned on. · The communication cable is not connected. · The communication port setting does not match the port to which the communication cable is connected.	A certain time was not communicated with the driver.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.
	Fail to open the communication port. Check the possible causes listed below: · Wrong communication setting is used. · It is used by other applications.	Although the communication port was tried to open, it could not be opened because it was in use or its setting was not correct.	• Check the setting of the communication port. • Check if the communication port is used by other applications.
	The communication data is invalid.	The error occurred on communication data.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.
Failed to reset the alarm.	The error occurred on communication device.	The error occurred on communication device.	Check if the communication program (dll) for Windows isn't damaged.
	A communication timeout error occurred. Check the possible causes listed below: · The driver power is not turned on. · The communication cable is not connected. · The communication port setting does not match the port to which the communication cable is connected.	A certain time was not communicated with the driver.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.

Error message		Cause	Action
Failed to reset the alarm.	Fail to open the communication port. Check the possible causes listed below: · Wrong communication setting is used. · It is used by other applications.	Although the communication port was tried to open, it could not be opened because it was in use or its setting was not correct.	• Check the setting of the communication port. • Check if the communication port is used by other applications.
	The communication data is invalid.	The error occurred on communication data.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.

11.4 Error messages related to test function

■ I/O test

Error message		Cause	Action
Can not enable the I/O test.	Series, or did not match the type of driver.	Although the I/O test was tried to be enabled, the model selected in the **EZED3** did not match the driver model.	Check the connected product and execute again after selecting the correct model in the **EZED3**.
	Check the following items: · The motor is driving.	The I/O test was tried to be enabled while operating the motor.	Execute the operation again after stopping the motor.
	The error occurred on communication device.	The error occurred on communication device.	Check if the communication program (dll) for Windows isn't damaged.
	A communication timeout error occurred. Check the possible causes listed below: · The driver power is not turned on. · The communication cable is not connected. · The communication port setting does not match the port to which the communication cable is connected.	A certain time was not communicated with the driver.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.
	Fail to open the communication port. Check the possible causes listed below: · Wrong communication setting is used. · It is used by other applications.	Although the communication port was tried to open, it could not be opened because it was in use or its setting was not correct.	• Check the setting of the communication port. • Check if the communication port is used by other applications.
	The communication data is invalid.	The error occurred on communication data.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.

Error message		Cause	Action
Can not enable the I/O test.	Application error has occurred. Reinstall the application.	An error occurred while executing an application.	Execute the operation again. If the same error occurs again, reinstall the **EZED3**.
Failure of test output.	The error occurred on communication device.	The error occurred on communication device.	Check if the communication program (dll) for Windows isn't damaged.
	A communication timeout error occurred. Check the possible causes listed below: · The driver power is not turned on. · The communication cable is not connected. · The communication port setting does not match the port to which the communication cable is connected.	A certain time was not communicated with the driver.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.
	Fail to open the communication port. Check the possible causes listed below: · Wrong communication setting is used. · It is used by other applications.	Although the communication port was tried to open, it could not be opened because it was in use or its setting was not correct.	• Check the setting of the communication port. • Check if the communication port is used by other applications.
	The communication data is invalid.	The error occurred on communication data.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.
The I/O test function was disabled.	The error occurred on communication device.	The error occurred on communication device.	Check if the communication program (dll) for Windows isn't damaged.
	A communication timeout error occurred. Check the possible causes listed below: · The driver power is not turned on. · The communication cable is not connected. · The communication port setting does not match the port to which the communication cable is connected.	A certain time was not communicated with the driver.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.
	Fail to open the communication port. Check the possible causes listed below: · Wrong communication setting is used. · It is used by other applications.	Although the communication port was tried to open, it could not be opened because it was in use or its setting was not correct.	• Check the setting of the communication port. • Check if the communication port is used by other applications.

Error message		Cause	Action
The I/O test function was disabled.	The communication data is invalid.	The error occurred on communication data.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.
An error occurred while disabling the I/O test.	The error occurred on communication device.	The error occurred on communication device.	Check if the communication program (dll) for Windows isn't damaged.
	A communication timeout error occurred. Check the possible causes listed below: · The driver power is not turned on. · The communication cable is not connected. · The communication port setting does not match the port to which the communication cable is connected.	A certain time was not communicated with the driver.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.
	Fail to open the communication port. Check the possible causes listed below: · Wrong communication setting is used. · It is used by other applications.	Although the communication port was tried to open, it could not be opened because it was in use or its setting was not correct.	• Check the setting of the communication port. • Check if the communication port is used by other applications.
	The communication data is invalid.	The error occurred on communication data.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.

■ Test operation

Error message		Cause	Action
Can not enable the test operation.	Series, or did not match the type of driver.	Although the test operation was tried to be enabled, the model selected in the **EZED3** did not match the driver model.	Check the driver type and execute again after selecting the correct model in the **EZED3**.
	Check the following items: · The motor is driving.	The I/O test was tried to be enabled while operating the motor.	Execute the operation again after stopping the motor.
	The upload was cancelled.	Although the test operation was tried to be enabled, cancellation was executed while uploading the synchronous processing between the driver and **EZED3**.	Make the test operation enable again.
	The download was cancelled.	Although the test operation was tried to be enabled, cancellation was executed while downloading the synchronous processing between the driver and **EZED3**.	

Error message		Cause	Action
Can not enable the test operation.	Can not download during the operation. Download after the operation is stopped.	The download of the synchronous processing between the driver and **EZED3** was tried while operating the motor.	Execute the operation again after stopping the motor.
	The error occurred on communication device.	The error occurred on communication device.	Check if the communication program (dll) for Windows isn't damaged.
	A communication timeout error occurred. Check the possible causes listed below: · The driver power is not turned on. · The communication cable is not connected. · The communication port setting does not match the port to which the communication cable is connected.	A certain time was not communicated with the driver.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.
	Fail to open the communication port. Check the possible causes listed below: · Wrong communication setting is used. · It is used by other applications.	Although the communication port was tried to open, it could not be opened because it was in use or its setting was not correct.	• Check the setting of the communication port. • Check if the communication port is used by other applications.
	The communication data is invalid.	The error occurred on communication data.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.
	Application error has occurred. Reinstall the application.	An error occurred while executing an application.	Execute the operation again. If the same error occurs again, reinstall the **EZED3**.
The registry data is abnormal.	Application error has occurred. Reinstall the application.		
An error occurred while executing.	Check the following items. · Other applications are executing. · There are a lot of residing applications · The processing speed of PC is insufficient.	It was executed when the PC was in high load condition.	• End other applications. • End the residing applications. • Change to another PC.

Error message		Cause	Action
The test operation function was disabled.	The error occurred on communication device.	The error occurred on communication device.	Check if the communication program (dll) for Windows isn't damaged.
	A communication timeout error occurred. Check the possible causes listed below: · The driver power is not turned on. · The communication cable is not connected. · The communication port setting does not match the port to which the communication cable is connected.	A certain time was not communicated with the driver.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.
	Fail to open the communication port. Check the possible causes listed below: · Wrong communication setting is used. · It is used by other applications.	Although the communication port was tried to open, it could not be opened because it was in use or its setting was not correct.	• Check the setting of the communication port. • Check if the communication port is used by other applications.
	The communication data is invalid.	The error occurred on communication data.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.
An error occurred while disabling the test operation.	The error occurred on communication device.	The error occurred on communication device.	Check if the communication program (dll) for Windows isn't damaged.
	A communication timeout error occurred. Check the possible causes listed below: · The driver power is not turned on. · The communication cable is not connected. · The communication port setting does not match the port to which the communication cable is connected.	A certain time was not communicated with the driver.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.
	Fail to open the communication port. Check the possible causes listed below: · Wrong communication setting is used. · It is used by other applications.	Although the communication port was tried to open, it could not be opened because it was in use or its setting was not correct.	• Check the setting of the communication port. • Check if the communication port is used by other applications.
	The communication data is invalid.	The error occurred on communication data.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.

Error message		Cause	Action
Failed to execute +direction JOG operation.	The error occurred on communication device.	The error occurred on communication device.	Check if the communication program (dll) for Windows isn't damaged.
	A communication timeout error occurred. Check the possible causes listed below: · The driver power is not turned on. · The communication cable is not connected. · The communication port setting does not match the port to which the communication cable is connected.	A certain time was not communicated with the driver.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.
	Fail to open the communication port. Check the possible causes listed below: · Wrong communication setting is used. · It is used by other applications.	Although the communication port was tried to open, it could not be opened because it was in use or its setting was not correct.	• Check the setting of the communication port. • Check if the communication port is used by other applications.
	The communication data is invalid.	The error occurred on communication data.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.
	Check the following items: · Motor excitation is off. · STOP is set to on. · Alarm is on. · Nonvolatile memory processing in progress.	Any of the following conditions will be a cause. · FREE signal or OF-CRN signal is in ON state · While executing the direct teaching or while the motor is not excited in the test operation · STOP signal is in ON state · An alarm is present · Non-volatile memory processing is in progress	• Turn the FREE signal and OF-CRN signal OFF and execute the operation. • When executing the teaching operation, set the teaching method to "remote teaching" and then execute again. When executing the test operation, set the motor to "excitation" and then execute again. • When executing the teaching operation, set the teaching method to "remote teaching" and then execute again. When executing the test operation, set the motor to "excitation" and then execute again. • Turn the STOP signal OFF and execute the operation. • Remove the cause of the alarm when the alarm is present, and then execute the operation. • When the non-volatile memory processing is in progress, execute the operation again at some interval.

Error message		Cause	Action
Failed to execute −direction JOG operation.	The error occurred on communication device.	The error occurred on communication device.	Check if the communication program (dll) for Windows isn't damaged.
	A communication timeout error occurred. Check the possible causes listed below: · The driver power is not turned on. · The communication cable is not connected. · The communication port setting does not match the port to which the communication cable is connected.	A certain time was not communicated with the driver.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.
	Fail to open the communication port. Check the possible causes listed below: · Wrong communication setting is used. · It is used by other applications.	Although the communication port was tried to open, it could not be opened because it was in use or its setting was not correct.	• Check the setting of the communication port. • Check if the communication port is used by other applications.
	The communication data is invalid.	The error occurred on communication data.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.
	Check the following items: · Motor excitation is off. · STOP is set to on. · Alarm is on. · Nonvolatile memory processing in progress.	Any of the following conditions will be a cause. · FREE signal or OF-CRN signal is in ON state · While executing the direct teaching or while the motor is not excited in the test operation · STOP signal is in ON state · An alarm is present · Non-volatile memory processing is in progress	• Turn the FREE signal and OF-CRN signal OFF and execute the operation. • When executing the teaching operation, set the teaching method to "remote teaching" and then execute again. When executing the test operation, set the motor to "excitation" and then execute again. • Turn the STOP signal OFF and execute the operation. • Remove the cause of the alarm when the alarm is present, and then execute the operation. • When the non-volatile memory processing is in progress, execute the operation again at some interval.

Error message		Cause	Action
Failed to stop Jog operation.	The error occurred on communication device.	The error occurred on communication device.	Check if the communication program (dll) for Windows isn't damaged.
	A communication timeout error occurred. Check the possible causes listed below: · The driver power is not turned on. · The communication cable is not connected. · The communication port setting does not match the port to which the communication cable is connected.	A certain time was not communicated with the driver.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.
	Fail to open the communication port. Check the possible causes listed below: · Wrong communication setting is used. · It is used by other applications.	Although the communication port was tried to open, it could not be opened because it was in use or its setting was not correct.	• Check the setting of the communication port. • Check if the communication port is used by other applications.
	The communication data is invalid.	The error occurred on communication data.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.
Failure of position preset.	The error occurred on communication device.	The error occurred on communication device.	Check if the communication program (dll) for Windows isn't damaged.
	A communication timeout error occurred. Check the possible causes listed below: · The driver power is not turned on. · The communication cable is not connected. · The communication port setting does not match the port to which the communication cable is connected.	A certain time was not communicated with the driver.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.
	Fail to open the communication port. Check the possible causes listed below: · Wrong communication setting is used. · It is used by other applications.	Although the communication port was tried to open, it could not be opened because it was in use or its setting was not correct.	• Check the setting of the communication port. • Check if the communication port is used by other applications.
	The communication data is invalid.	The error occurred on communication data.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.

Error message		Cause	Action
Failure of position preset.	Check the following items: · Motor excitation is off. · Alarm is on.	Position preset was tried to execute while the motor had been operated or the alarm had been generated.	• When the motor is driving, execute after stopping the motor. • Remove the cause of the alarm when the alarm is present, and then execute the operation.
The Z-phase preset can not be stored.	The error occurred on communication device.	The error occurred on communication device.	Check if the communication program (dll) for Windows isn't damaged.
	A communication timeout error occurred. Check the possible causes listed below: · The driver power is not turned on. · The communication cable is not connected. · The communication port setting does not match the port to which the communication cable is connected.	A certain time was not communicated with the driver.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.
	Fail to open the communication port. Check the possible causes listed below: · Wrong communication setting is used. · It is used by other applications.	Although the communication port was tried to open, it could not be opened because it was in use or its setting was not correct.	• Check the setting of the communication port. • Check if the communication port is used by other applications.
	The communication data is invalid.	The error occurred on communication data.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.
	Check the following items: · Alarm is on.	Setting of Z-phase was tried to execute while the alarm is presented.	Remove the cause of the alarm, and then execute the operation.
Failure of home operation.	The error occurred on communication device.	The error occurred on communication device.	Check if the communication program (dll) for Windows isn't damaged.
	A communication timeout error occurred. Check the possible causes listed below: · The driver power is not turned on. · The communication cable is not connected. · The communication port setting does not match the port to which the communication cable is connected.	A certain time was not communicated with the driver.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.

Error message		Cause	Action
Failure of home operation.	Fail to open the communication port. Check the possible causes listed below: · Wrong communication setting is used. · It is used by other applications.	Although the communication port was tried to open, it could not be opened because it was in use or its setting was not correct.	• Check the setting of the communication port. • Check if the communication port is used by other applications.
	The communication data is invalid.	The error occurred on communication data.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.
	Check the following items: · Motor excitation is off. · STOP is set to on. · Alarm is on. · Nonvolatile memory processing in progress.	Any of the following conditions will be a cause. · FREE signal or OF-CRN signal is in ON state · While executing the direct teaching or while the motor is not excited in the test operation · STOP signal is in ON state · An alarm is present · Non-volatile memory processing is in progress	• Turn the FREE signal and OF-CRN signal OFF and execute the operation. • When executing the teaching operation, set the teaching method to "remote teaching" and then execute again. When executing the test operation, set the motor to "excitation" and then execute again. • Turn the STOP signal OFF and execute the operation. • Remove the cause of the alarm when the alarm is present, and then execute the operation. • When the non-volatile memory processing is in progress, execute the operation again at some interval.
	Check the following items. · Other applications are executing. · There are a lot of residing applications. · The processing speed of PC is insufficient.	It was executed when the PC was in high load condition.	• End other applications. • End the residing applications. • Change to another PC.
	Failed to stop operation.	Although the positioning operation was tried to stop, the communication error was occurred.	Check the PC communication condition.

Error message		Cause	Action
Failure of positioning.	The error occurred on communication device.	The error occurred on communication device.	Check if the communication program (dll) for Windows isn't damaged.
	A communication timeout error occurred. Check the possible causes listed below: · The driver power is not turned on. · The communication cable is not connected. · The communication port setting does not match the port to which the communication cable is connected.	A certain time was not communicated with the driver.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.
	Fail to open the communication port. Check the possible causes listed below: · Wrong communication setting is used. · It is used by other applications.	Although the communication port was tried to open, it could not be opened because it was in use or its setting was not correct.	• Check the setting of the communication port. • Check if the communication port is used by other applications.
	The communication data is invalid.	The error occurred on communication data.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.
	Check the following items: · Drive data is over range. · Motor excitation is off. · STOP is set to on. · Alarm is on. · Nonvolatile memory processing in progress.	Any of the following conditions will be a cause. · Operation data is out of range · FREE signal or OF-CRN signal is in ON state · While executing the direct teaching or while the motor is not excited in the test operation · STOP signal is in ON state · An alarm is present · Non-volatile memory processing is in progress	• Execute again after correcting the operation data in a range. • Turn the FREE signal and OF-CRN signal OFF and execute the operation. • When executing the teaching operation, set the teaching method to "remote teaching" and then execute again. When executing the test operation, set the motor to "excitation" and then execute again. • Turn the STOP signal OFF and execute the operation. • Remove the cause of the alarm when the alarm is present, and then execute the operation. • When the non-volatile memory processing is in progress, execute the operation again at some interval.

Error message		Cause	Action
Failure of positioning.	Check the following items. · Other applications are executing. · There are a lot of residing applications. · The processing speed of PC is insufficient.	It was executed when the PC was in high load condition.	• End other applications. • End the residing applications. • Change to another PC.
	Failed to stop operation.	Although the positioning operation was tried to stop, the communication error was occurred.	Check the PC communication condition.

11.5 Error messages related to other function

■ Print

Error message		Cause	Action
Failed to open the print preview dialog.	No printer is installed.	Although the print review was executed, the printer had not installed.	Install a printer driver.。
	Failed to create the printing data.	Although the print was tried to execute by print dialog, it failed to make the print data.	Change to another printer. If the same error occurs again, reinstall the **EZED3**.
	Application error has occurred. Reinstall the application.	An error occurred while executing an application.	Execute the operation again. If the same error occurs again, reinstall the **EZED3**.
Failed to print.	Failed to create the printing data.	Although the print was tried to execute by print dialog, it failed to make the print data.	Change to another printer. If the same error occurs again, reinstall the **EZED3**.
	Application error has occurred. Reinstall the application.	An error occurred while executing an application.	Execute the operation again. If the same error occurs again, reinstall the **EZED3**.
Failed to open the print dialog box.	No printer is installed.	Although the print was executed, the printer had not installed.	Install a printer driver.。
Failed to open the page settings dialog.	No printer is installed.	Although the page setting was executed, the printer had not installed.	

■ Identifying the product information

Error message		Cause	Action
Failed to identify the product.	Unsupported products.	Unsupported driver was connected.	Connect the product supported by the **EZED3**.
	Motor cable is not connected.	The motor is not connected to the driver.	Connect the motor.
	Executing the status monitor.	Identifying the product information was tried to execute while executing the status monitor.	Execute after stopping the function.
	Executing the alarm monitor.	The window was tried to change while executing the alarm monitor.	

Error message		Cause	Action
Failed to identify the product.	Executing the I/O test.	Identifying the product information was tried to execute while executing the I/O test.	Execute after stopping the function.
	Executing the test operation.	Identifying the product information was tried to execute while executing the test operation.	
	Executing the teaching.	Identifying the product information was tried to execute while executing the teaching operation.	
	The error occurred on communication device.	The error occurred on communication device.	Check if the communication program (dll) for Windows isn't damaged.
	A communication timeout error occurred. Check the possible causes listed below: · The driver power is not turned on. · The communication cable is not connected. · The communication port setting does not match the port to which the communication cable is connected.	A certain time was not communicated with the driver.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.
	Fail to open the communication port. Check the possible causes listed below: · Wrong communication setting is used. · It is used by other applications.	Although the communication port was tried to open, it could not be opened because it was in use or its setting was not correct.	• Check the setting of the communication port. • Check if the communication port is used by other applications.
	The communication data is invalid.	The error occurred on communication data.	Check the connection with the driver. When no problem was found in the connection, check if there is an influence of noise.
	Application error has occurred. Reinstall the application.	An error occurred while executing an application.	Execute the operation again. If the same error occurs again, reinstall the **EZED3**.

11.6 Error messages related to application

Error message		Cause	Action
Analysis of the setting files failed.	Setting file is corrupted. Reinstall the application.	It failed to read the setting file.	Reinstall the **EZED3**.
	Application error has occurred. Reinstall the application.	An error occurred while executing an application.	Execute the operation again. If the same error occurs again, reinstall the **EZED3**.
Application has already been started.	–	The running application was tried to start again.	When the running application is not found, open the application after rebooting the PC.
Failed to read the registry.	You may not have the authority. Application error has occurred. Reinstall the application.	A user logging in is not given reading authority of the registry.	Login by the user that the registry reading authority was given, or give the login-user the registry reading authority.
Failed to write on the registry.	You may not have the authority. Application error has occurred. Reinstall the application.	A user logging in is not given writing authority of the registry.	Login by the user that the registry writing authority was given, or give the login-user the registry writing authority.

12 List of drivers supported by the EZED3

Series	Power supply specification	Driver model
ELS Series **ELF** Series **ELX** Series **EZS** Series **EZ-Drive** type **ELC** Series	24 VDC	EDR36D-K/KL EDR36P-K/KR
DRE Series		EDR36D-K/KL

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